MODEL

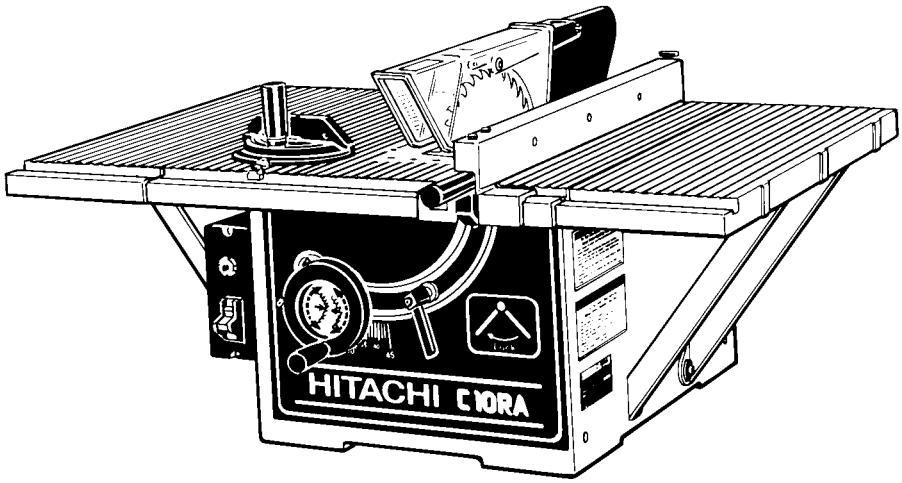
C 10RA

HITACHI
POWER TOOLS

C

TABLE SAW
C 10RA

TECHNICAL DATA
AND
SERVICE MANUAL



LIST No. E922 Jan. 1999

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

REMARK:

Throughout this TECHNICAL DATA AND SERVICE MANUAL, a symbol(s) is(are) used in the place of company name(s) and model name(s) of our competitor(s). The symbol(s) utilized here is(are) as follows:

Symbol Utilized	Competitor	
	Company Name	Model Name
C	MAKITA	2708DW

CONTENTS

[Business Section] **Page**

1. PRODUCT NAME ····· 1

2. MARKETING OBJECTIVE ····· 1

3. APPLICATIONS ····· 1

4. SELLING POINTS ····· 1

4-1. Selling Point Descriptions ····· 2

5. SPECIFICATIONS ····· 3

5-1. Specifications ····· 3

5-2. Outside View and External Dimensions ····· 4

6. COMPARISONS WITH SIMILAR PRODUCTS ····· 5

7. PRECAUTIONS IN SALES PROMOTION ····· 6

7-1. Instruction Manual ····· 6

7-2. Precautions on the Name Plate ····· 6

7-3. Warning Label (A) ····· 6

7-4. Warning Label (B) ····· 7

7-5. Package ····· 8

7-6. Related Laws and Regulations ····· 8

8. PRECAUTIONS ON OPERATION ····· 9

8-1. Unpacking ····· 9

8-2. Assembly ····· 10

8-3. Adjustment ····· 15

8-4. Relation between Saw Blade and Spreader (or Splitter) ····· 19

8-5. Overload Protective Device ····· 19

8-6. Precautions on Using the Brake (115 V) ····· 19

8-7. Extension Cords ····· 20

8-8. Cutting Work ····· 21

9. MAINTENANCE AND INSPECTION ····· 22

9-1. Inspecting the Saw Blade ····· 22

9-2. Inspecting the Carbon Brushes ····· 22

9-3. Inspecting the Mounting Screws ····· 22

9-4. Inspecting the Saw Blade Guard for Proper Operation ····· 23

9-5. Regular Cleaning of the Saw Blade Guard ····· 23

9-6. Storage ····· 23

9-7. Lubrication ····· 23

9-8. Cleaning ····· 23

[Service Section]

10. PRECAUTIONS IN DISASSEMBLY AND REASSEMBLY ····· 24

10-1. Disassembly ····· 24

10-2. Reassembly ····· 31

10-3. Wiring ····· 32

10-4. Adjustments ····· 36

10-5. Product Precision ····· 36

11. REPAIR GUIDE ····· 37

12. STANDARD REPAIR TIME (UNIT) SCHEDULES ····· 40

[Appendix]

Assembly Diagram for C 10RA ····· 41

1. PRODUCT NAME

Hitachi Table Saw, Model C 10RA

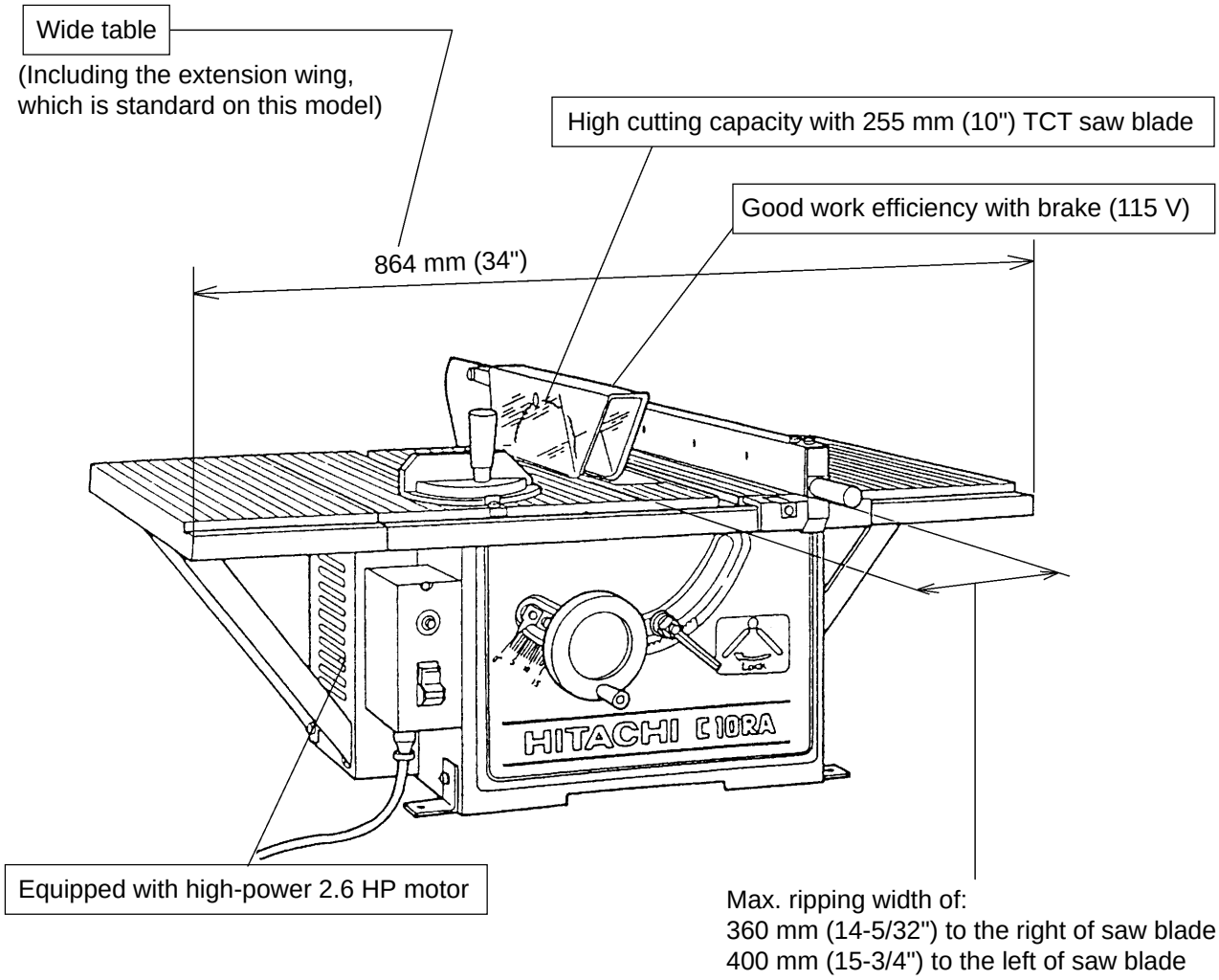
2. MARKETING OBJECTIVE

This model was developed to meet the user's need for excellent cost performance. The most outstanding feature is the strong and wide table engineered for professional use. It is equipped with a high-power 2.6 HP motor and a TCT saw blade (36 teeth) is included as a standard accessory. Also, the table saw has a convenient brake (115 V) for faster completion of repeated cutting jobs. The Model C 10RA has many features and specifications that rank it among the top of this class of table saw.

3. APPLICATIONS

Rip-cutting and cross-cutting of ordinary wood, hardwood, plywood, composite wood materials, plastics and similar materials.

4. SELLING POINTS


Wide table
(Including the extension wing, which is standard on this model)
High cutting capacity with 255 mm (10") TCT saw blade
Good work efficiency with brake (115 V)
864 mm (34")
HITACHI C 10RA
Equipped with high-power 2.6 HP motor
Max. ripping width of:
360 mm (14-5/32") to the right of saw blade
400 mm (15-3/4") to the left of saw blade

4-1. Selling Point Descriptions

(1) Wide table width

An extension wing is standard on this machine to give the table a width of 864 mm (34"). This provides a wide ripping width of up to 360 mm (14-5/32") to the right of the saw blade and up to 400 mm (15-3/4") to the left of the saw blade when using the rip fence.

Table 1

Maker/ Model name	Max. ripping width	
	To right of saw blade	To left of saw blade
HITACHI C 10RA	360 mm (14-5/32")	400 mm (15-3/4")
C	300 mm (11-13/16")	300 mm (11-13/16")

(2) High cutting capacity with 255 mm (10") TCT saw

A 255 mm (10") TCT saw blade is standard on this machine. It has a cutting capacity higher than that of maker C's model. When cutting wood, the roughness and burr condition on the cut surface are also superior to those produced by maker C's model.

Table 2

Maker/ Model name	Cutting depth of saw blade		Cut section
	90°	45° Bevel	Max. Surface roughness
HITACHI C 10RA	*0 – 76 (0 – 3")	*11 – 63 (7/16" – 2-1/2")	44 μm
C	0 – 64 (0 – 2-1/2")	*0 – 64 (7/16" – 1-5/8")	70 μm

* Specifications for other than the U.S.A. models

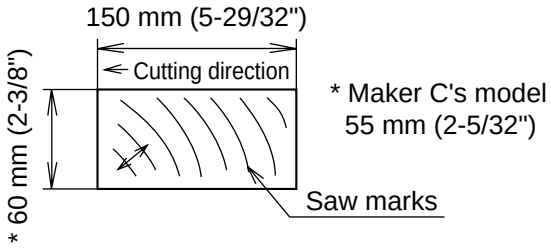


Fig. 1

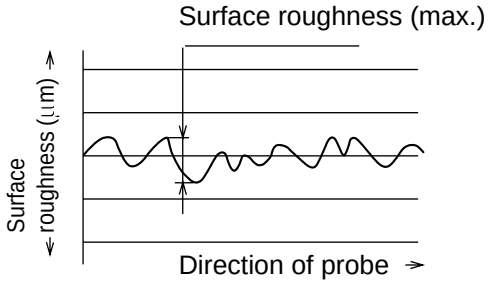


Fig. 2

Cutting material: Douglas fir

Percentage of water content: 13 to 16 %

Right-angle cutting in 17 seconds.

Using the roughness meter, the roughness (irregularities in the surface shown in Fig. 2) was measured by moving the probe in the direction of the arrow as shown in Fig. 1.

(3) Good work efficiency with brake (115 V)

When the switch is turned off after a cutting operation, the electric brake will stop the saw blade (about 3 – 5 seconds). Efficient operation is assured when removing the cut material.

(4) Equipped with a high-power 2.6 HP motor

The high-power motor facilitates fast cutting operations.

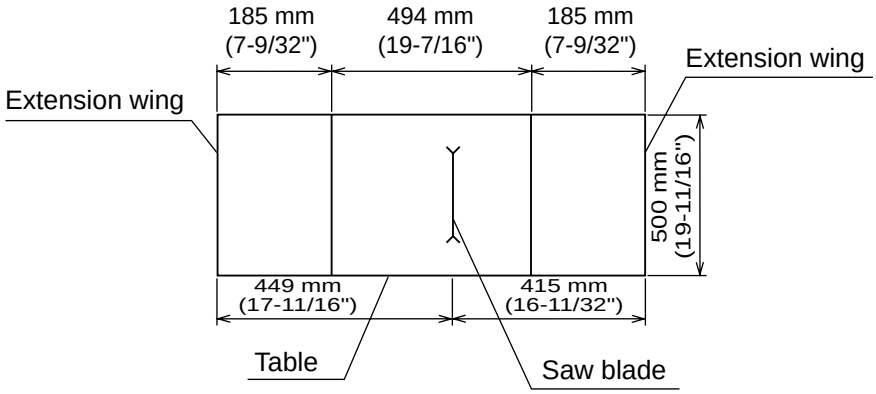
Hitachi	C 10RA	60 x 150 mm material	15 seconds
	C	55 x 150 mm material	20 seconds

Table 3

Maker/Model name	Max. output
HITACHI C 10RA	1,940 W (2.6 HP)
C	1,500 W (2.0 HP)

5. SPECIFICATIONS

5-1. Specifications

<table>
<tr><td colspan="2">Item</td><td colspan="6">Specifications</td></tr>
<tr><td colspan="2" rowspan="2">Max. cutting depth</td><td>Cutting angle / Saw blade</td><td colspan="2">90°</td><td colspan="2">45° bevel</td></tr>
<tr><td>Outer diameter
255 mm (10")</td><td colspan="2">0 – 76 mm *1
(0 – 3")</td><td colspan="2">11 – 63 mm *1
(7/16" – 2-1/2")</td></tr>
<tr><td colspan="2">Saw blade dimensions *2
(supplied TCT saw)</td><td colspan="6">Outer dia. 255 mm (10") x Inner dia. 15.9 mm (5/8") x Teeth number 36
Outer dia. 255 mm (10") x Inner dia. 25.4 mm (1") x Teeth number 36
Outer dia. 255 mm (10") x Inner dia. 30 mm (1-3/16") x Teeth number 36</td></tr>
<tr><td rowspan="2">Table</td><td>Table surface dimensions</td><td colspan="6"> 
</td></tr>
<tr><td>Table surface height</td><td colspan="6">310 mm (12-3/16")
905 mm (35-5/8") (when mounted on the optional stand)</td></tr>
<tr><td rowspan="2">Power source</td><td rowspan="2">Table voltage</td><td rowspan="2">AC single phase</td><td>Hz</td><td>50</td><td>60</td><td>50</td><td>50</td></tr>
<tr><td>V</td><td>110</td><td>115</td><td>230</td><td>240</td></tr>
<tr><td rowspan="3">Motor</td><td rowspan="3">Type
Rated current
Input</td><td rowspan="3">AC single phase commutator motor</td><td>V</td><td>110</td><td>115</td><td>230</td><td>240</td></tr>
<tr><td>A</td><td>13</td><td>15</td><td>6.5</td><td>6.3</td></tr>
<tr><td>W</td><td>1360</td><td>1640</td><td>1430</td><td>1430</td></tr>
<tr><td>No-load speed</td><td colspan="6">5,000 /min</td></tr>
<tr><td colspan="2">Weight</td><td colspan="6">Net (with extension wing): 25.4 kg (56 lbs) Gross: 31 kg (68 lbs)
(for USA, NZL and AUS)
Net (with extension wing): 25 kg (55 lbs) Gross: 30.6 kg (67 lbs) (for Europe)</td></tr>
<tr><td colspan="2">Packaging</td><td colspan="6">Corrugated cardboard box</td></tr>
<tr><td colspan="2">Cord *1</td><td colspan="6">Three-core cabtire cable, 2.0 mm² (14 A.W.G.) x 2 m (6.5 ft)
Three-core cabtire cable, 1.0 mm² x 2 m (6.5 ft)</td></tr>
<tr><td colspan="2">Standard accessories</td><td colspan="6">255 mm (10") TCT saw blade (36 teeth) ····· 1 pc.
Extension wing (with extension supporter) ····· 2 pcs.
Set plate ····· 4 pcs.
Wrench (22 mm) ····· 1 pc.
Wrench (23 x 26 mm) ····· 1 pc.
Elbow (chip extraction duct) ····· 1 pc.
Hex. wrench (for Europe only) ····· 1 pc.</td></tr>
<tr><td colspan="2">Optional accessories</td><td colspan="6">Dado insert (for dado cutter) (code No. 314325)
Push stick (code No. 314324) (standard accessory for Europe)
Table saw stand (code No. 314819) (standard accessory for other specifications)</td></tr>
</table>

*1 Specifications for other than the U.S.A. models
*2 Specifications are subject to change by area.

5-2. Outside View and External Dimensions

(1) Specifications for the U.S.A., Australia and New Zealand models

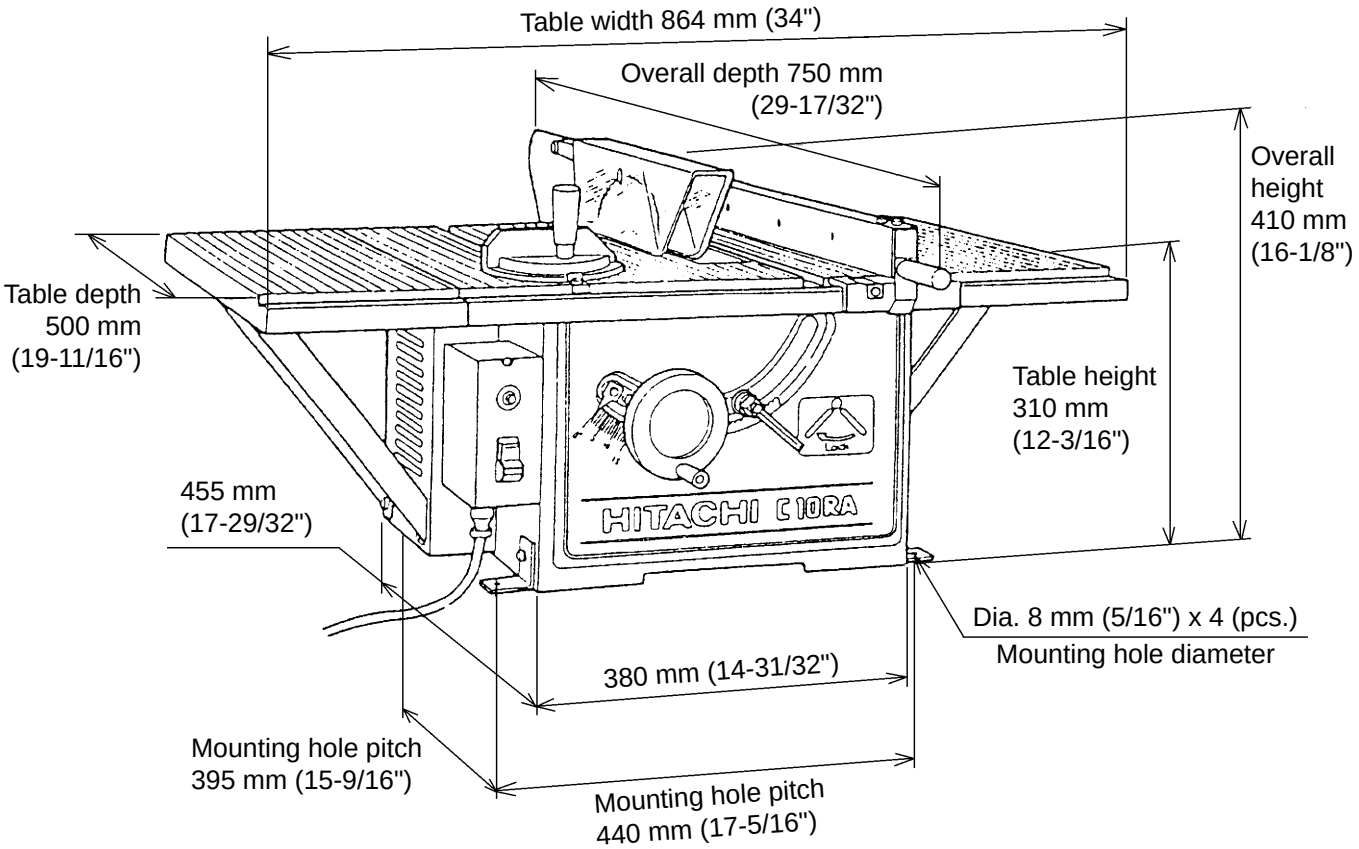


Fig. 3

(2) Specifications for Europe models

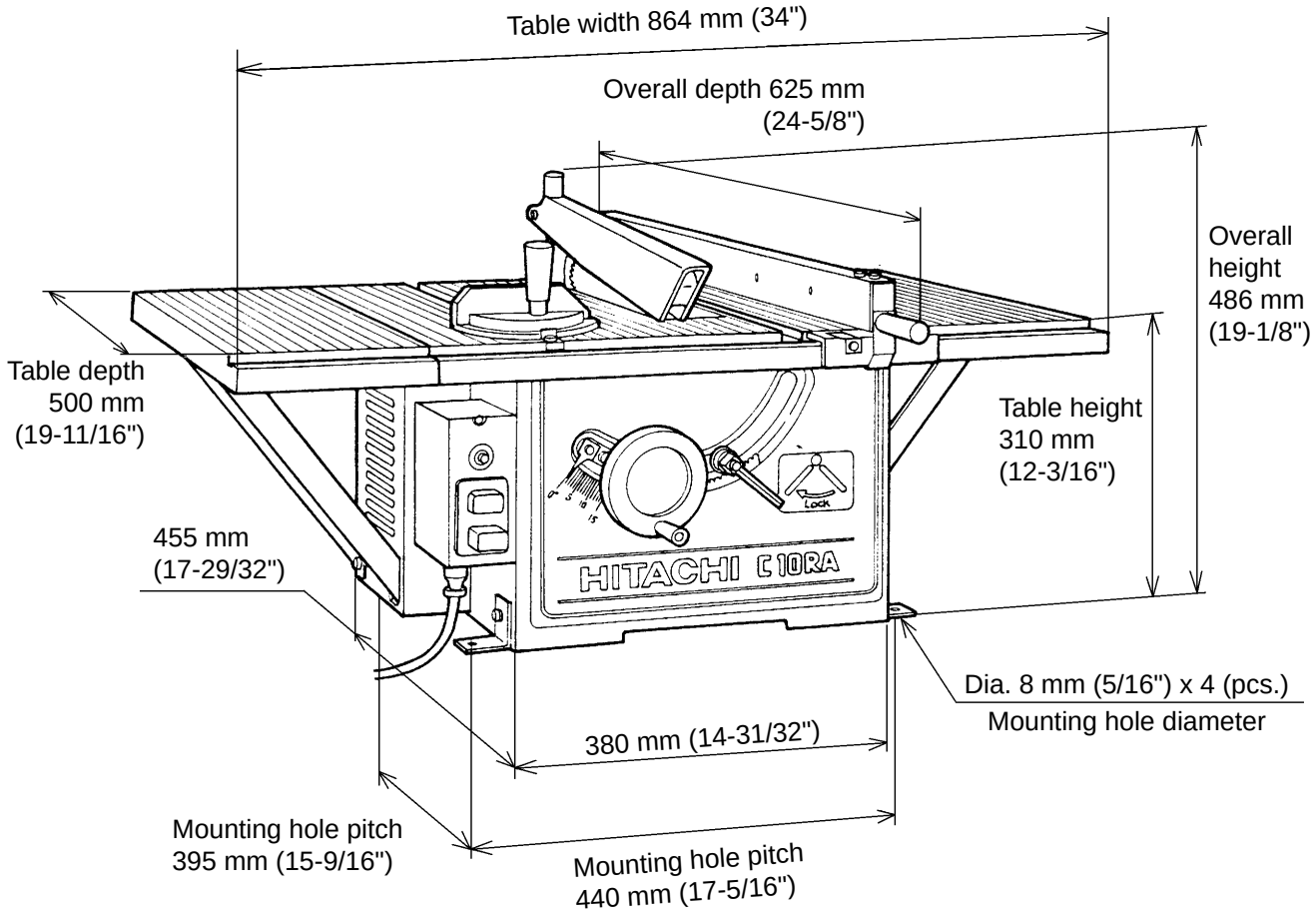


Fig. 4

6. COMPARISONS WITH SIMILAR PRODUCTS

Item \ Maker / Model		HITACHI C 10RA	C
Saw blade	Outer diameter	255 mm (10")	210 mm (8-1/4")
	Inner diameter*2	15.8 mm (5/8"), 25.4 mm (1"), 30 mm (1-3/16")	15.8 mm (5/8")
Maximum cutting	0° (right angle)	76 mm *1 (3")	64 mm (2-1/2")
	45° (bevel)	11 mm – 63 mm *1 (7/16" – 2-1/2")	11 mm – 41 mm (7/16" – 1-5/8")
Maximum dado cutter size (diameter x width)		152 mm x 12 mm (6" x 1/2")	152 mm x 12 mm (6" x 1/2")
Maximum ripping capacity		Right side 360 mm (14-5/32") Left side 400 mm (15-3/4")	Right side 300 mm (11-13/16") Left side 300 mm (11-13/16")
Table dimensions (width x depth)		494 mm x 500 mm (19-7/16" x 19-11/16")	660 mm x 460 mm (26" x 18-1/8")
Table dimensions with extensions (width x depth)		864 mm x 500 mm (34" x 19-11/16")	1,413 mm x 460 mm (55-5/8" x 18-1/8")
Motor	Voltage, Current	V 110 115 230 240 A 13 15 6.5 6.3	115 V, 12 A
	Rated input	V 110 115 230 240 W 1360 1640 1430 1430	1,350 W
	Max. output (HP)	1,940 W (2.6 HP)	1,500 W (2.0 HP)
	No-load speed	5,000 /min	4,500 /min
Brake		Provided (115 V only)	None
Dust collection port		O.D. 65 mm x I.D. 59 mm (O.D. 9/16" x I.D. 5/16")	—
Machine dimensions (width x depth x height)		494 mm x 500 mm x 310 mm (19-7/16" x 19-11/16" x 12-3/16")	660 mm x 460 mm x 375 mm (26" x 18-1/8" x 14-3/4")
Net weight		25.4 kg (56 lbs) (with extension wing) (for USA, AUS and NZL) 25 kg (55 lbs) (with extension wing) (for Europe)	17 kg (37.5 lbs)
Standard accessories		255 mm (10") TCT saw blade (NT 36) ····· 1 Extension wing ····· 2 Set plate ····· 4 Wrench (22 mm) ····· 1 Wrench (23 mm x 26 mm) ····· 1 Elbow (chip extraction duct) ····· 1 Hex. wrench (for Europe only) ····· 1	210 mm (8-1/4") TCT saw blade (NT 18) ····· 1 Rip fence ····· 1 Miter gauge ····· 1 Wrench (22 mm) ····· 1 Wrench (19 mm) ····· 1 Wrench (10 mm x 13 mm) ····· 1 Hex. Bar wrench ····· 1
Optional accessories		Table saw stand (Code No. 314819) (standard accessory for other specifications) Push stick (Code No. 314324) (standard accessory for Europe) Dado insert (Code No. 314325)	Table saw stand Holder set Sub-table set Chisel tooth combination Saw blade (NT 30) TCT saw blade (NT 18, 40) Dado head set Dado outer flange Table insert (for dado head)

*1 Specifications for other than U.S.A. models

*2 Specifications are subject to change by area.

7. PRECAUTIONS IN SALES PROMOTION

In the interest of promoting the safest and most efficient use of the Model C 10RA Table Saw by all of our customers, it is very important that at the time of sale, the salesperson carefully ensures that the buyer seriously recognizes the importance of the contents of the Instruction Manual, and fully understands the meaning of the precautions listed on the various caution plates attached to each machine.

7-1. Instruction Manual

Although every effort is made in each step of design, manufacture and inspection to provide protection against safety hazards, the dangers inherent in the use of any electric tool cannot be completely eliminated. Accordingly, general precautions and suggestions for the use of electric power tools, and specific precautions and suggestions for the use of the table saw are listed in the Instruction Manual to enhance the safe and efficient use of the tool by the customer. Salespersons must be thoroughly familiar with the contents of the Instruction Manual to be able to offer appropriate guidance to the customer during sales promotion.

7-2. Precautions on the Name Plate

Each Model C 10RA is furnished with a Name Plate that lists the following precautions:
(Precautions on the Name Plate are subject to change by area.)

CAUTION
• For Safe operation, see Instruction Manual. ……①
• Always wear eye protection. ……②
• Do not use saw blade rated below 6000 rpm. ……③
• Use guards with saw blade. ……④

(1) Instruct the customer to read the Instruction Manual thoroughly prior to attempting to operate the machine.
(2) As cutting chips or sawdust flying into the eyes of the operator could result in loss of sight, it is absolutely necessary to caution the customer to wear protective glasses whenever operating the machine.
(3) Instruct the customer never to use a saw blade with a rated maximum rotation speed of less than 6,000 /min. If a saw blade with a rated maximum rotation speed of less than 6,000 /min is used, there is a danger that one or more of the blade tips could fly off unexpectedly and cause serious injury to the operator or anyone else in the immediate area.
(4) Instruct the customer to confirm without fail that all saw blade guards and other safety devices furnished with the machine are properly mounted before attempting to operate the machine.

7-3. Warning Label (A)

⚠WARNING
For Your Own Safety Read Instruction Manual Before Operating Table Saw
1. Wear eye protection.
2. Use saw blade guard and spreader for every operation for which it can be used, including all through sawing.
3. Keep hands out of the line of saw blade.
4. Use a push stick when required.
5. Pay particular attention to instructions on reducing risk of kickback.
6. Do not perform any operation freehand.
7. Never reach around or over saw blade.
N392456

This is mounted on the right side of the body shell. Please instruct users to strictly observe the contents of 1 to 7 in the warning label shown at left. (Warning Label (A) is not provided on some areas' models.)

(1) Be sure to wear the protective glasses.

(2) Advise the user to use the saw blade guard and spreader when using the table saw. The saw blade guard prevents the operator from touching the saw blade and the dislodging of workpiece. This should be employed to ensure safety.

(3) Take care to keep the hands away from the saw blade.

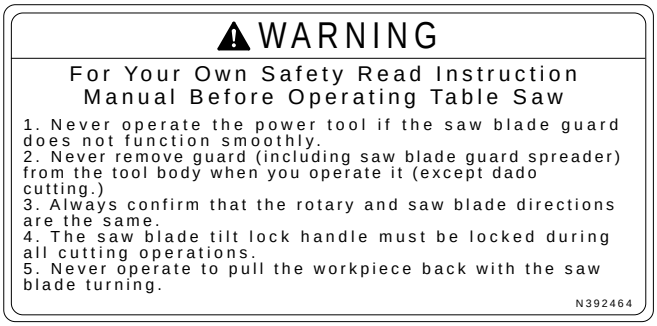
(4) Explain the procedure for making and using the push stick (standard accessory for Europe) to the user. Details are contained in the Instruction Manual (refer to page 18 for the U.S.A. models and page 22 for Australia and New Zealand models). Advise the user to use the push stick when cutting a narrow workpiece vertically.

(5) If the workpiece dislodges, it may injure the operator.
Follow the dislodging preventive measures in the Instruction Manual. Advise the user to check that the dislodging preventive claw (anti-kickback pawls) works correctly and the claw (anti-kickback pawls) edge is sharp enough to bite into the workpiece before starting operation. (For the U.S.A., Australia and New Zealand)

(6) Use both hands during cutting work. For cross cutting, hold the workpiece and miter gauge securely.
For vertical cutting, hold the workpiece and press it onto the rip fence surface securely by hand. These precautions are fundamental to cutting work.

(7) Never get too close to the saw blade and be especially careful about the exposed rotating teeth.

7-4. Warning Label (B)


⚠WARNING
For Your Own Safety Read Instruction Manual Before Operating Table Saw
1. Never operate the power tool if the saw blade guard does not function smoothly.
2. Never remove guard (including saw blade guard spreader) from the tool body when you operate it (except dado cutting.)
3. Always confirm that the rotary and saw blade directions are the same.
4. The saw blade tilt lock handle must be locked during all cutting operations.
5. Never operate to pull the workpiece back with the saw blade turning.
N392464

This is mounted on the right side of the body shell. Please instruct users to strictly observe the contents of 1 to 5 in the warning label shown at left.

(1) The saw blade guide is designed to protect the operator from coming into contact with the saw blade during operation of the tool.

(2) The saw blade guard and spreader are for safe operation. Do not operate the machine without the saw blade guard and spreader (except for dado cutting).

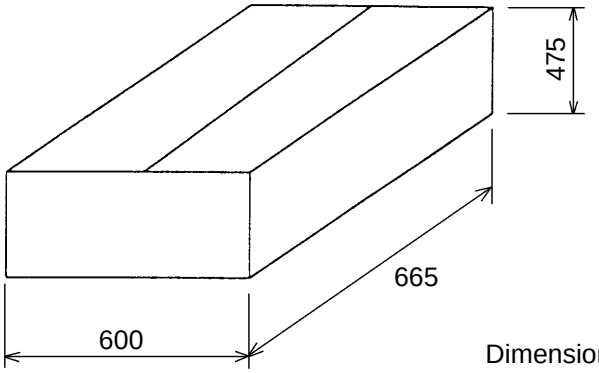
(3) When mounting the saw blade, check that the saw blade's direction of rotation matches the machine's direction of rotation.

(4) Be sure to lock the tilt lock handle to prevent tilting of the saw blade during operation.

(5) If the wood is pulled toward the operator during cutting, it may be repelled by the saw blade (kickback). Never pull the wood toward the operator during cutting.

7-5. Package

The Model C 10RA Table Saw is divided into the main table and the extension wing sections before packing and shipping. Therefore, buyers of this machine are required to perform some light assembly. Instruct customers to carefully read the assembly procedure in the Instruction Manual.



Dimensions of cardboard box (mm)

Fig. 5

7-6. Related Laws and Regulations

The Model C 10RA (for the U.S.A.) has passed the UL standard. Furthermore, the Model C 10RA for Europe is approved by TÜV Rheinland. Therefore, the operator's safety is assured if it is operated according to the Instruction Manual. The most important thing is to familialize the user with the machine, so advise the user on correct operation and thus ensure the user's safety.

Misoperation will cause a serious accident. Please be very careful in advising the user.

8. PRECAUTIONS ON OPERATION

8-1. Unpacking

The parts illustrated in Fig. 6 are packaged together with.

When unpacking, carefully confirm that all parts are accounted for.

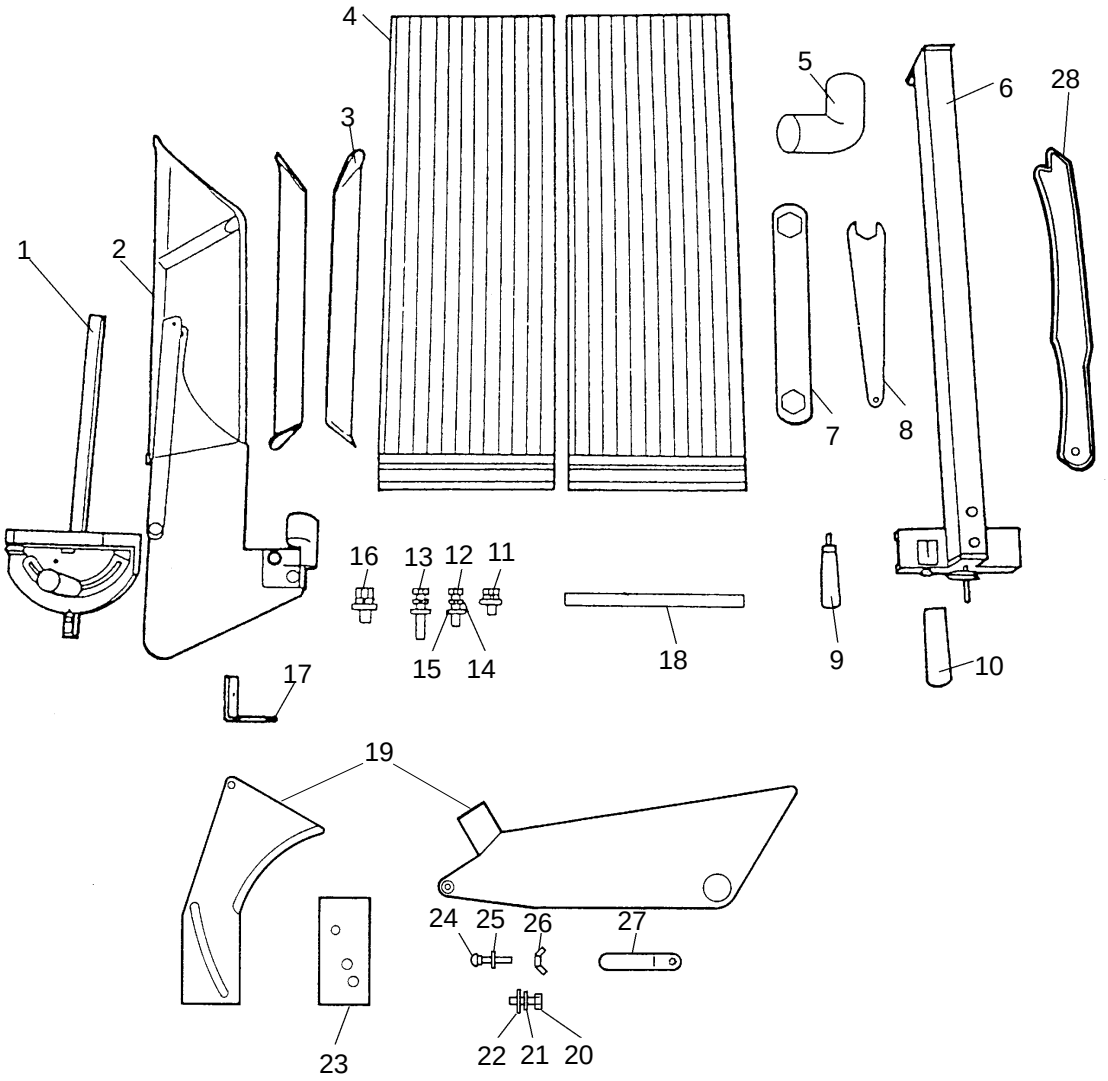


Fig. 6

1. Miter Gauge (1 piece)
2. Saw Blade Guard and Spreader Assembly (1 piece) (for USA, AUS and NZL)
3. Extension Supporter (4 pieces)
4. Extension Wing (2 pieces)
5. Elbow (1 piece)
6. Fence Ass'y (1 piece)
7. Hex. Wrench (23 mm x 26 mm) (1 piece)
8. Wrench (22 mm) (1 piece)
9. Handle (1 piece)
10. Clamp Handle (A) (1 piece)
11. 6 x 20 mm Bolt (with/washers) (6 pieces)
12. 6 x 35 mm Bolt (1 piece)
13. 6 x 60 mm Bolt (1 piece)
14. 6 mm Spring Washer (2 pieces)
15. 6 mm Flat Washer (2 pieces)
16. 8 x 20 mm Bolt (with/washers) (12 pieces)
17. Set Plate (4 pieces)
18. Scale (2 pieces) (for USA, AUS and NZL)
19. Saw Blade Guard and Splitter (1 piece)
20. 6 x 16 mm Bolt (1 piece)
21. 6 mm Spring Washer (1 piece)
22. Flat Washer (1 piece)
23. Spacer (2 pieces)
24. 6 x 35 mm Special Bolt (1 piece)
25. 6 mm Flat Washer (1 piece)
26. 6 mm Wing Nut (1 piece)
27. Hex. Wrench (1 piece)
28. Push Stick (1 piece)

(For Europe)

8-2. Assembly

⚠WARNING: To avoid an accident or personal injury, always confirm that the switch is turned OFF and the power plug has been disconnected from the receptacle before assembly of this tool.

8-2-1. Assembly of the Handle

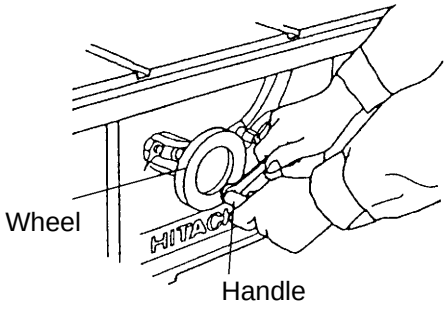


Fig. 7

The handle allows faster turning of the wheel.
When properly assembled, it will rotate freely but with only a small amount of play,

(1) Tighten the screw of the handle until it hits against the wheel.
(2) Securely tighten the handle nut with a wrench.

8-2-3. Assembly of the Rip Fence (Fence Ass'y)

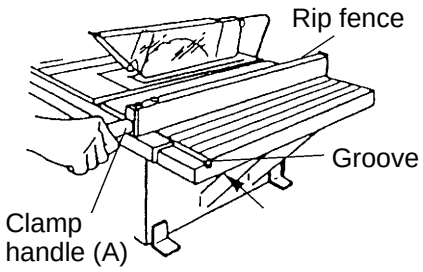


Fig. 8

The rip fence can be conveniently used to cut a workpiece into different pieces of precise width or into parallel pieces. It can be mounted on either the right or left side of the table.

(1) Align the groove in the front of the table with the groove in the fence bracket and slide it in the direction indicated by the arrow from the end of the table.
(2) Attach clamp handle (A) to the screw of the fence bracket.
(3) When moving the rip fence, loosen clamp handle (A) to release the lock. To lock the rip fence, tighten clamp handle (A).

8-2-3. Assembly of the Miter Gauge

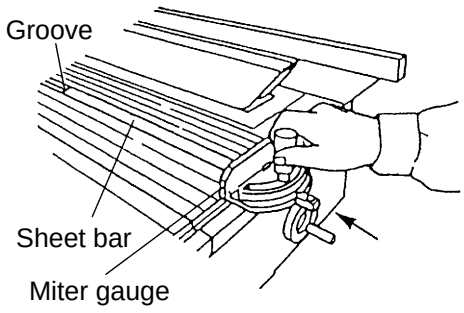


Fig. 9

The miter gauge is convenient for cutting long or angular pieces which are difficult to work on with the rip fence. It can be mounted on either the right or left side of the table. Align the sheet bar of miter gauge with the table groove and slide it in the direction indicated by the arrow through the front of the table.

8-2-4. Mounting and Adjusting the Saw Blade Guard Assembly (for the U.S.A., Australia and New Zealand)

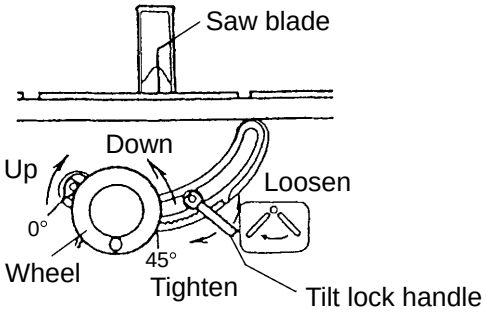


Fig. 10-a

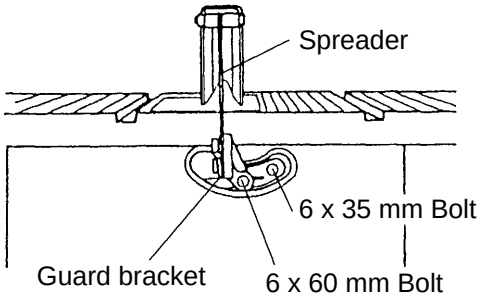


Fig. 10-b

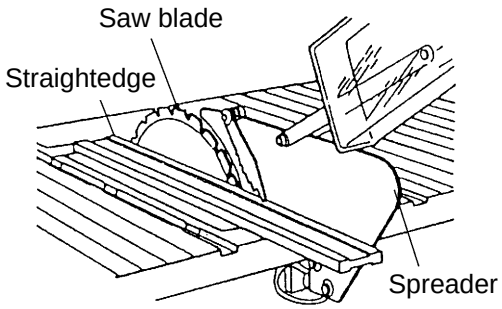


Fig. 10-c

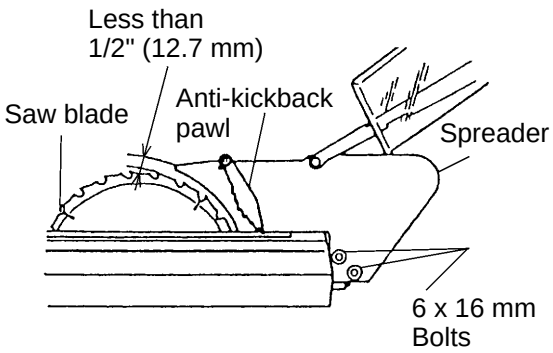


Fig. 10-d

⚠CAUTION: The saw blade guard and spreader assembly must be aligned properly to the saw blade in order to prevent kickback.

Mount the saw blade guard assembly, which includes the spreader and anti-kickback pawls (see Fig 10-d).

(1) Mounting the spreader

① Loosen the saw blade tilt lock handle, move the saw blade tilting mechanism to the left and set the saw blade to 0° by means of the stopper. Tighten the saw blade tilt lock handle to lock it in position.

② Turn the wheel fully clockwise and set the saw blade to the maximum cutting height (see Fig. 10-a).

③ Put a 6 mm spring washer and a D13 flat washer on to the 6 x 60 mm and 6 x 35 mm bolts.

④ Tentatively fasten the spreader on the rear section of the body using the two 6 mm bolts mentioned above (see Fig. 10-b). (The guard bracket must be attached to the spreader in advance.)

(2) Adjusting the spreader

① Use a straightedge to align the spreader with the saw blade (see Fig. 10-c).
Tighten the two 6 x 16 mm bolts (see Fig. 10-d) with a wrench to lock the spreader.

② Check clearance between saw blade tip and the spreader. It should be less than 1/2" (12.7 mm) at all positions. If not, loosen the two 6 x 16 mm bolts securing the spreader to the guard bracket with a wrench and move the spreader up and down. After adjustment of the spreader is complete, firmly retighten the two 6 x 16 mm bolts with a wrench (see Fig. 10-d).

8-2-5. Mounting and Adjusting the Saw Blade Guard (for Europe)

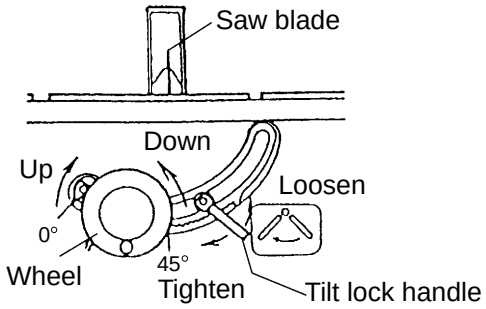


Fig. 11-a

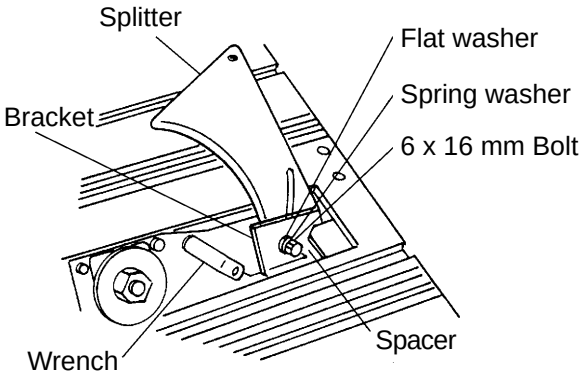


Fig. 11-b

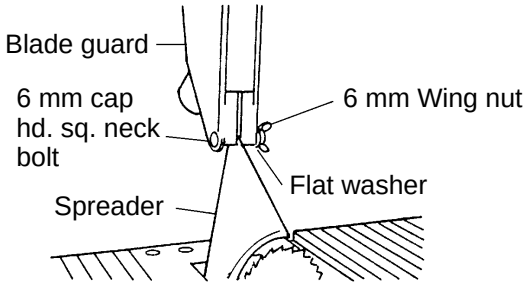


Fig. 11-c

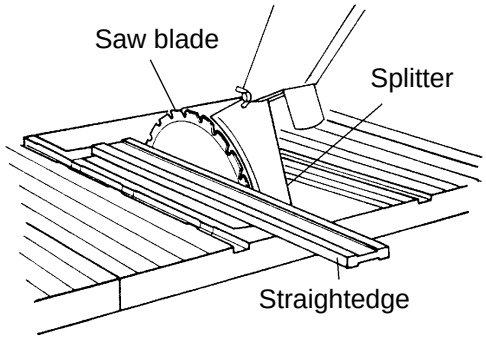


Fig. 11-d

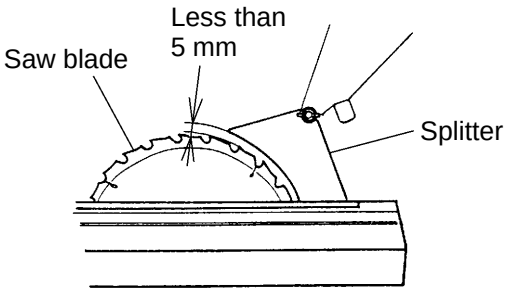


Fig. 11-e

⚠CAUTION: The saw blade guard and splitter must be aligned properly to the saw blade in order to prevent kickback.

(1) Mounting the splitter

① Turn the wheel fully clockwise and set the saw blade to the maximum cutting height (see Fig. 11-a).

② Loosen the saw blade tilt lock handle and move the saw blade tilting mechanism to the right until it hits against the stopper.

Then tighten the saw blade tilt lock handle.

③ Remove the table insert on the table.

④ Mount the splitter to the bracket using a wrench, 6 x 16 mm bolt, spring washer, flat washer and two spacers (see Fig. 11-b).

NOTE: make certain the two protrutions are engaged with the slot in the splitter.

(2) Mounting the saw blade guard

Mount the saw blade guard to the splitter using the 6 mm cap hd. sq. neck bolt, flat washer and 6 mm wing nut (see Fig. 11-c).

(3) Adjusting the splitter

① Use a straightedge to align the splitter with the saw blade (see Fig. 11-d).

NOTE: The spacers can be relocated or be removed as needed to center the splitter over the saw blade.

② Check clearance between saw blade tip and the splitter. It should be less than 5 mm at all positions (see Fig. 11-e). If not, loosen the 6 x 16 mm bolt securing the splitter to the bracket.

Move the splitter up and down. After adjustment of the splitter is complete, firmly retighten the 6 x 16 mm bolt using a wrench.

8-2-6. Mounting the Table Insert

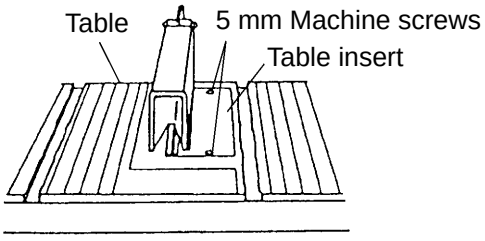


Fig. 12

The table insert is mounted to the table with two 5 mm machine screws. (For the U.S.A., Australia and New Zealand)
The table insert is mounted to the table with two 5 mm flat hd. screws. (For Europe)

⚠**CAUTION: The table insert must be in place and securely fastened at all times.**

8-2-7. Mounting the Elbow (Chip Extraction Duct) (Standard Accessory)

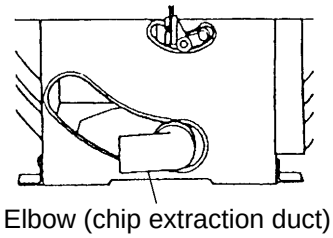


Fig. 13

Connect a 65 mm (2-9/16") hose of dust collector to the chip extraction duct to suck cutting chips awasy. Mount the chip extraction duct on the chip discharge outlet at the body rear of the body.

8-2-8. Assembly of the Extension Wings (Standard Accessory)

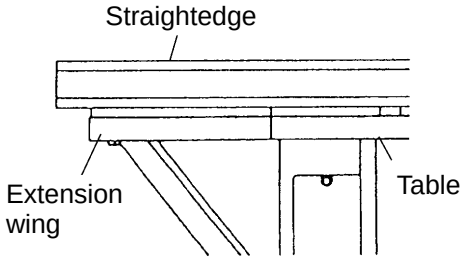


Fig. 14-a

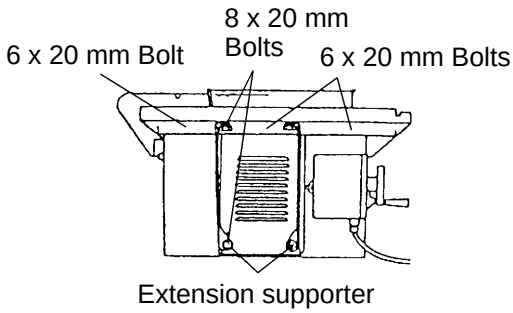


Fig. 14-b

(1) Use a straightedge to ensure the extension wings are level with the table surface (see Fig. 14-a).
(2) Assembling the extension wings using the three 6 x 20 mm bolts (with/washer) (see Fig. 14-b).
(3) Adjust the table so that the rip fence receiving groove at the table front is level with the rip fence receiving grooves on the extension wings. The extension wings must be the same level as the table. If it not same level, loosen the 6 x 20 mm bolts (with/washer) and readjust the extension wings.
(4) Mount the extension supporter while using the straightedge to make sure that the table surface is level with the surfaces of the extension wings.
Tighten the four 8 x 20 mm bolts (see Fig. 14-b).

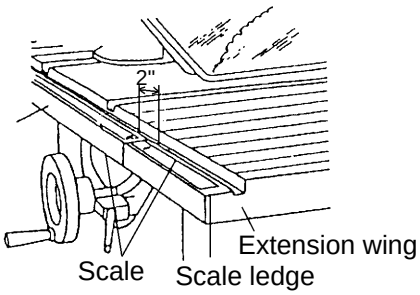


Fig. 14-c

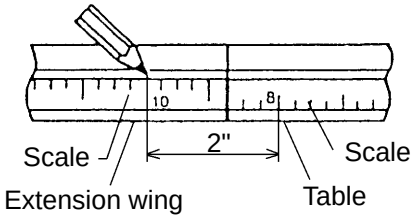


Fig. 14-d

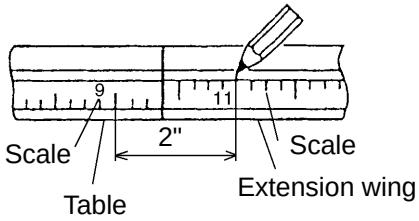


Fig. 14-e

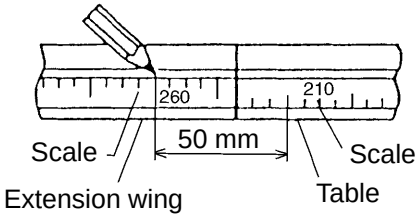


Fig. 14-f

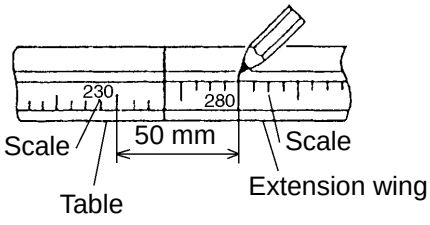


Fig. 14-g

(5) (For the U.S.A.) Apply the scale to the extension wings (See Fig. 14-c).

Before sticking on the scales to the right and left extension wing ledges, carefully mark a reference line with a pencil on each extension wing:

Draw a line 2" to the left of the 8" mark on the left-hand side of the table, then align the 10" mark of the left extension scale and press it firmly into place (see Fig. 14-d).

Draw a line 2" to the right of the 9" mark on the right-hand side of the table, then align the 11" mark of the right extension scale and press it firmly into place (see Fig. 14-e).

(6) (For Australia and New Zealand) Apply the scale to the extension wings (see Fig. 14-c).

Before sticking on the scales to the right and left extension wing ledges, carefully mark a reference line with a pencil on each extension wing:

Draw a line 50 mm to the left of the 210 mm mark on the left-hand side of the table, then align the 260 mm mark of the left extension scale and press it firmly into place (see Fig. 14-f).

Draw a line 50 mm to the right of the 230 mm mark on the right-hand side of the table, then align the 280 mm mark of the right extension scale and press it firmly into place (see Fig. 14-g).

8-3. Adjustment

The tool is accurately adjusted before shipping from the factory.

Check the following settings and readjust them if necessary in order to obtain the best results in operation.

⚠WARNING: To avoid an accident or personal injury, always confirm that the switch is turned OFF and the power plug has been disconnected from the receptacle before adjustment of this tool.

8-3-1. Adjustment of Saw Blade parallel to Miter Gauge Groove

This is probably the most difficult of the adjustments. Before shipment from the factory this adjustment was made but it should be rechecked and readjusted if necessary.

⚠CAUTION: The adjustment must be correct. Kickback could result and accurate cuts cannot be made.

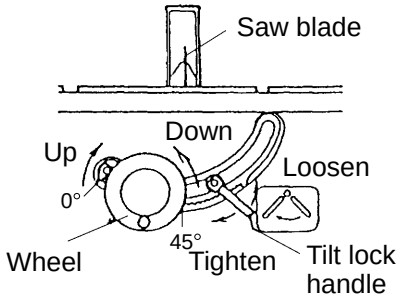


Fig. 15-a

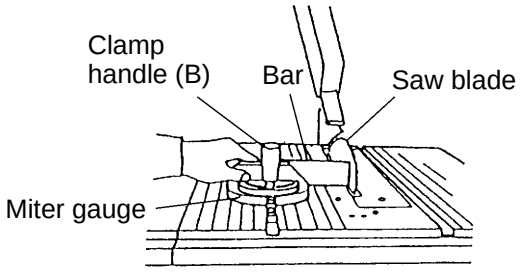


Fig. 15-b

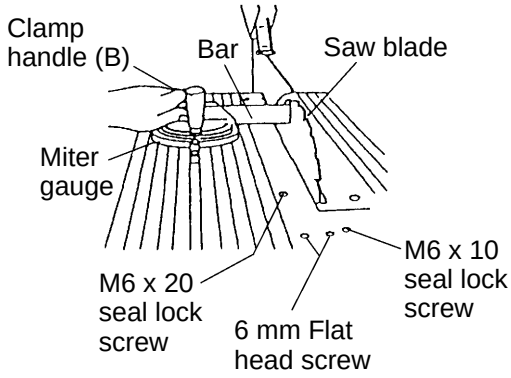


Fig. 15-c

(1) Loosen the saw blade tilt lock handle by turning it counterclockwise. Move the saw blade tilting mechanism to the left and set the saw blade to 0° with the stopper.

(2) Turn the wheel fully clockwise and set the saw blade to the maximum cutting height (see Fig. 15-a).

(3) Select a tooth on the saw blade which is bent to the right.

(4) Mark that tooth with a pencil or permanent marker.

(5) Set the miter gauge to 90° and tighten the clamp handle (B) to lock it in that position. Place the miter gauge in the left hand groove in the table top (see Fig. 15-b).

(6) Rotate the saw blade to bring the marked tooth to the front and about 12.7 mm (1/2") above the table top.

(7) Place a bar or square flat against the miter gauge.

(8) Move the bar or square toward the saw blade until it just touches the tip of the marked saw blade tooth.

(9) Without disturbing the bar clamped to the miter gauge, move the miter gauge to the center of the saw blade.

(10) Rotate the marked tooth to the rear and slide the miter gauge rearward until the clamped bar is closest to the tip of the marked saw blade tooth
(see Fig. 15-c).

(11) If the bar just touched the tooth when the gauge was in the front position, it should just touch the tooth in the rear position.
Likewise, if there was some clearance between the bar and the tooth tip at the front, the same clearance should be at the rear.

(12) If the front and rear clearance are not identical,
① Remove the miter gauge.
② Loosen the four 6 mm flat head screws.
③ Move the body and adjust it so that a bar placed on the miter gauge has the same clearance between the front and the rear of the saw blade.
④ Tighten the four 6 mm flat head screws.

8-3-2. Adjusting the 90° and 45° Positive Stops

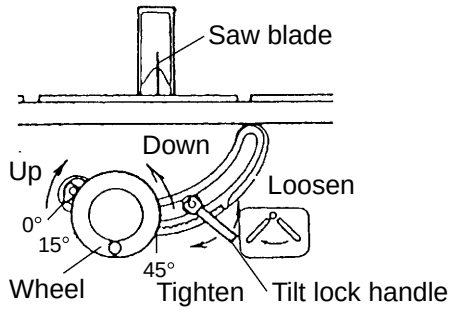


Fig. 16-a

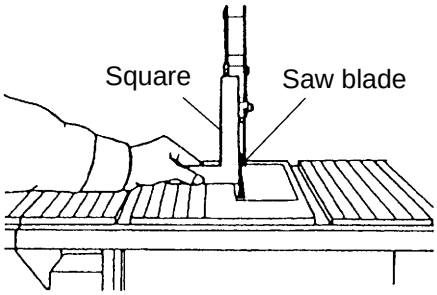


Fig. 16-b

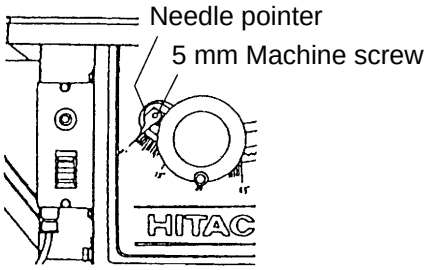


Fig. 16-c

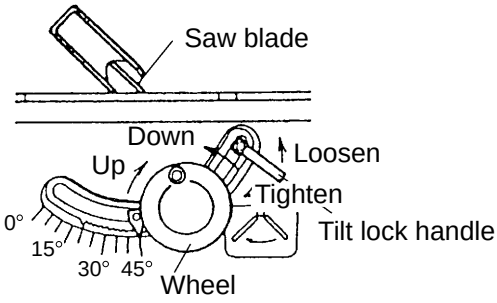


Fig. 17-a

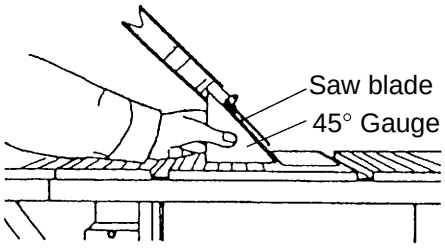


Fig. 17-b

The tool is equipped with positive stops for rapid and accurate positioning of the saw blade at 90° and left bevel 45° to the table.

Check and adjust the positive stops with the following procedures.

(1) To adjust positive stop at 90°

① Turn the wheel fully clockwise and set the saw blade to the maximum cutting height.

② Loosen the saw blade tilt lock handle and move the saw blade tilting mechanism to the left until it hits against the stopper. Then tighten the saw blade tilt lock handle (see Fig. 16-a).

③ Use a square to check that the saw blade is at precisely 90° (see Fig. 16-b).

④ If the saw blade is not at precisely 90°, loosen the saw blade tilt lock handle by turning it counterclockwise. Loosen the M6 x 20 seal lock screw (see Fig. 15-c) a few turns and move the saw blade tilting mechanism until the blade is 90° to the table (see Fig. 16-b).

⑤ Tighten the saw blade tilt lock handle after adjustment.

⑥ Loosen the 5 mm machine screw and set the needle pointer to 0°. On completion of adjustment, recheck the 90° angle of the saw blade and table (see Fig. 16-c).

(2) To adjust the positive stop at left bevel 45°

① Turn the wheel fully clockwise and set the saw blade to the maximum cutting height.

② Loosen the saw blade tilt lock handle and move the saw blade tilting mechanism to the right until it hits against the stopper. Then tighten the saw blade tilt lock handle (see Fig. 17-a).

③ Use a 45° gauge to check that the saw blade is at a left bevel 45° (see Fig. 27-b).

④ If the saw blade is not at a left bevel 45°, loosen the saw blade tilt lock handle. Loosen the M6 x 20 seal lock screw (see Fig. 15-c) a few turns and move the saw blade tilting mechanism until the blade is at left bevel 45° to the table (see Fig. 17-b).

⑤ After adjustment, tighten the saw blade tilt lock handle.

⑥ On completion of adjustment, recheck the left 45° bevel of the saw blade to the table.

8-3-3. Adjustment of the Rip Fence (Fence Ass'y)

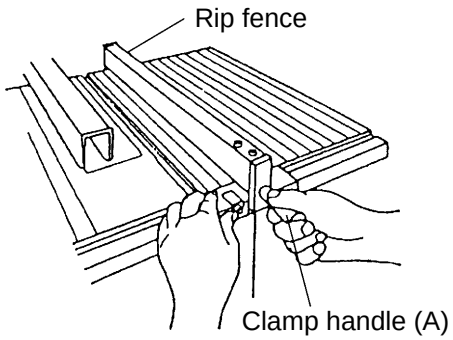


Fig. 18-a

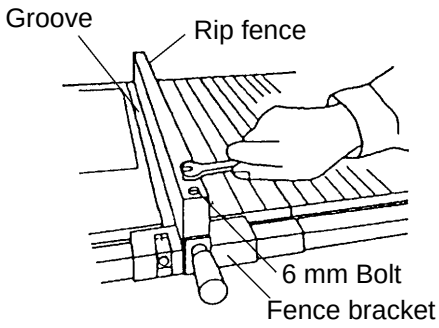


Fig. 18-b

Before shipment from the factory the saw blade is set parallel to the miter-gauge groove and the rip fence is adjusted parallel to the miter-gauge groove. Check and adjust the parallelism of the rip fence with the following procedures in order to assure accuracy and prevent kickback when ripping.

(1) Loosen clamp handle (A) (see Fig. 18-a).

(2) Position the rip fence at one edge of the miter-gauge groove.

(3) Lock the rip fence to the table with clamp handle (A).
The edge of the rip fence should then line up parallel with the miter-gauge groove.

(4) If the edge of the rip fence is not parallel with the miter-gauge groove,

① Loosen the two 6 mm bolts securing the parallel bracket to the fence bracket (see Fig. 18-b).

② Loosen clamp handle (A), align the rip fence parallel to the groove, and tighten the clamp handle (A).

③ While holding the parallel bracket to prevent movement, tighten the two 6 mm bolts previously loosened.

④ Loosen clamp handle (A), move and return the parallel bracket adjacent to the groove, tighten clamp handle (A) and verify that the parallel bracket is parallel to the groove.

⑤ Repeat adjustment until it is parallel.

⑥ After adjustment, tighten the two 6 mm bolts.

⑦ On completion of adjustment, recheck the rip fence is parallel with the miter-gauge groove.

8-3-4. Adjustment of the Pointer

The pointer indicates the distance the rip fence is positioned away from the saw blade. The pointer should indicate the accurate distance from the saw blade. Check and adjust the pointer with the following procedures.

NOTE: The pointer will need to be readjusted whenever a different thickness saw blade is installed.

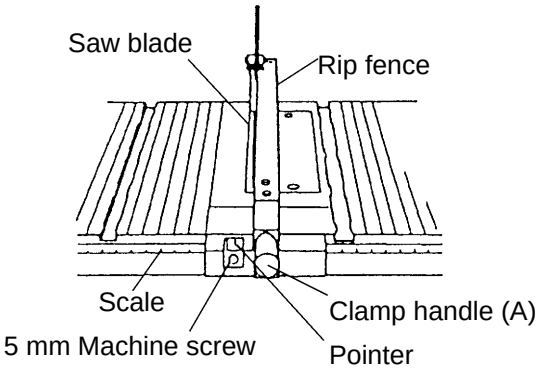


Fig. 19

To adjust the pointer 0 setting.

(1) Loosen clamp handle (A) and move the rip fence to bring it into tight contact with the side of the saw blade.

(2) Make sure that the pointer indicates 0 on the scale provided on the table.

(3) If the pointer does not indicate 0 on the scale,

① Tighten clamp handle (A).

② Loosen the 5 mm machine screw holding the pointer (see Fig. 19).

③ Adjust the pointer to the 0 position and retighten the 5 mm machine screw.

④ After adjustment, recheck to see that the pointer now indicates 0.

8-3-5. Adjustment of the Miter Gauge

The miter gauge should be square to the saw blade.

Check and adjust the miter gauge with the following procedures.

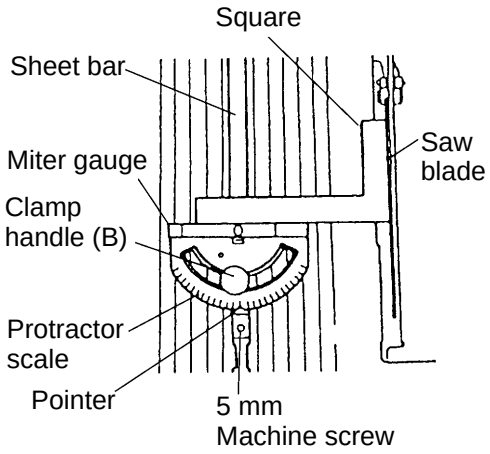


Fig. 20

To adjust the pointer 0 setting.

(1) Loosen clamp handle (B) and place a square against both the saw blade and the miter gauge. The pointer should indicate 90° on the protractor scale on the miter gauge.

(2) If the pointer does not indicate 0 on the miter gauge,

① Tighten clamp handle (B).

② Loosen the 5 mm machine screw on the sheet bar.

③ Adjust the pointer to the 90° position and tighten the 5 mm machine screw on the sheet bar (see Fig. 20).

④ After adjustment, recheck to see that the pointer now indicates 0.

8-4. Relation between Saw Blade and Spreader (or Splitter)

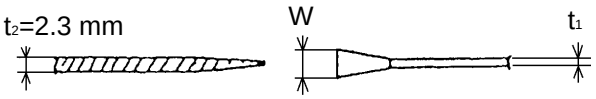


Fig. 21

The saw thickeness (t_1), set width (tip width, W) and spreader (or splitter) thickness (t_2) are set in the following relation to prevent dislodging : $W>t_2>t_1$.
The spreader thickness of C 10RA for the U.S.A., Australia and New Zealand is 2.3 mm. (Fig. 21)
The splitter thickness of C 10RA for Europe is 2.5 mm.

The spreader or splitter bites into the workpiece kerf like a wedge to prevent the saw blade from being pressed by the workpiece. Therefore, the spreader or splitter thickness needs to be larger than the saw thickness (t_1). However, if the spreader or splitter thickness is larger than the set width (W), a large resistance is applied to the feeding of the workpiece, making operation impossible.
If a locally available saw blade is used, the above relation cannot be obtained, causing a defect in operation. Therefore, it is important to advise the user to use only genuine Hitachi saw blades.

8-5. Overload Protective Device

This tool is provided with an overload protective device (thermal relay). If the workpiece feed speed is too fast or the saw blade is dull, the overload protective device engages to stop power to the motor and protect it. In this case, allow the motor to cool from 3 to 5 minutes and then press the reset switch to resume operation.

8-6. Precautions on Using the Brake (115 V)

This machine is equipped with a brake to stop the blade's rotation when the switch is turned OFF. When the switch is turned OFF, the rotation usually stops in 3 to 5 seconds. Should it take more than 15 seconds before stopping, the machine should not be used. Instruct the customer to contact a Hitachi electric tool dealer for inspection or repair if this occurs.

(1) Be sure to use the carbon brush designated for this machine (code No. 999044). The use of any other carbon brush will hinder performance of the brake.
(2) Should the brake fail to function, check the carbon brush. If it wears below 5 mm (3/16") in length, replace it. If the brake still does not function, it may be necessary to replace the armature ass'y, etc.

8-7. Extension Cords

The Instruction Manual contains a table of cord lengths and lead wire diameters. Select an appropriate extension cord. If the lead wire diameter is too small compared with the cord length, it may cause considerable voltage drops, resulting in lowered efficiency.

Use only three-wire extension cords which have three-prong grounding-type plugs and three-pole receptacles which accept the saw's plug. Replace or repair a damaged or worn cord immediately.

Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 4 shows the correct size to use depending on cord length and Nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Check power cords and extension cords for loose or exposed wires and damaged insulation before using. Repair or replace as needed before using the power tool.

NOTE: The lower the wire size number, the heavier the wire and the further it will carry current without a voltage drop.

⚠**WARNING: Never connect this unit to an electrical power source until all operating instructions have been read and understood.**

Table 4. Minimum gauge for cord

Ampere rating (on Nameplate)	5.1 to 7.0	12.1 to 16.0
Ext. cord length	Wire gauge size A.W.G. (mm^2)	
25 ft. (7.5 m)	18 A.W.G. (1.0 mm^2)	14 A.W.G. (2.0 mm^2)
50 ft. (15 m)	16 A.W.G. (1.5 mm^2)	12 A.W.G. (3.5 mm^2)
75 ft. (22.5 m)	14 A.W.G. (2.0 mm^2)	10 A.W.G. (5.5 mm^2)

8-8. Cutting Work

Precautions on cutting work are provided in the Instruction Manual. Read them carefully and advise the user on correct operation. In this section, important items and the items not described in the Instruction Manual are explained to help you advise the user.

(1) For cutting work, be sure to use the saw blade guard and check that everything functions properly.

① Check that the saw blade guard rises smoothly.

② Remove wood chips in the guard and wipe off the swarf on the guard with a soft cloth.

③ Check that the dislodging preventive claw (anti-kickback pawls) works normally and is sharp at the tip. (For the U.S.A., Australia and New Zealand)

④ Check that the screw fastening the spreader is not loose.

(2) When using the miter gauge and rip fence, be sure to secure them firmly before starting operation.

(3) Before starting operation, be sure to tighten the tilt lock handle for raising and tilting saw blade.

(4) Remove the swarf in the miter-gauge groove.

(5) Do not raise the saw blade excessively.

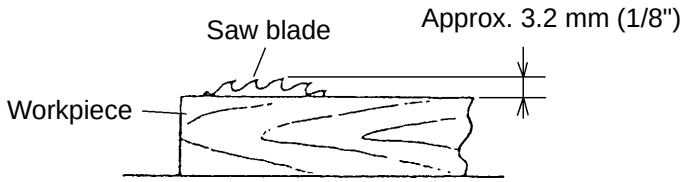


Fig. 22

As shown in Fig. 22, raise the saw blade about 3.2 mm (1/8") above the workpiece to be cut. Excessive raising may cause dislodging of the workpiece.

(6) The standard precision values are provided in 10-5. Product Precision.

Advise the user to check the precision before starting cutting work. If the precision is insufficient, it may cause dislodging of the workpiece or other unexpected accidents, resulting in poor cutting precision.

(7) The set nut securing the saw blade is naturally tightened.

Advise the user to check the set nut is firmly tightened before starting operation, and also to remove the plug at this time.

(8) Use of work helpers.

Assembling and procedures for use of work helpers:

Work helpers are essential for safe operation. Give careful advice on this point. Many books are available on the market relating to work helpers and use of table saws. Recommend the user to purchase such books.

9. MAINTENANCE AND INSPECTION

⚠WARNING: To avoid an accident or personal injury, always confirm that the switch is turned OFF and that the power plug has been disconnected from the receptacle before performing any maintenance or inspection of this tool.

9-1. Inspecting the Saw Blade

Always replace the saw blade immediately upon the first sign of deterioration or damage. A damaged saw blade can cause personal injury and a worn saw blade can cause ineffective operation and possible overload to the motor.

⚠CAUTION: Never use a dull saw blade. When a saw blade is dull, its resistance to the hand pressure applied by the tool handle tends to increase, making it unsafe to operate the power tool.

9-2. Inspecting the Carbon Brushes (Fig. 23 and Fig. 24)

The carbon brushes in the motor are expendable parts. If the brushes become excessively worn, motor trouble might occur. Therefore, inspect the brushes periodically and replace them. Check the brushes after the first 50 hours of use for a new machine or after a new set of brushes have been installed. After the first check, examine them after about every 10 hours of use until such time that replacement is necessary. When the carbon on either brush is worn to 5 mm (3/16") in length or if either spring or shunt wire is burned or damaged in any way, replace both brushes (see Fig. 23). If the brushes are found to be serviceable after removing, reinstall them in the same position as before. Also, keep the carbon brushes clean so that they will slide smoothly within the brush holders. The carbon brushes can easily be removed after removal of the brush caps (see Fig. 24) with a flatblade screwdriver.

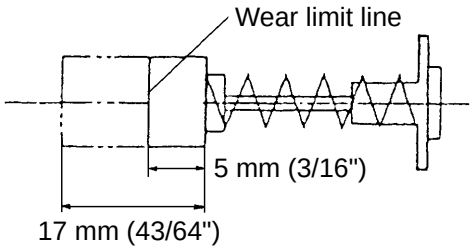


Fig. 23

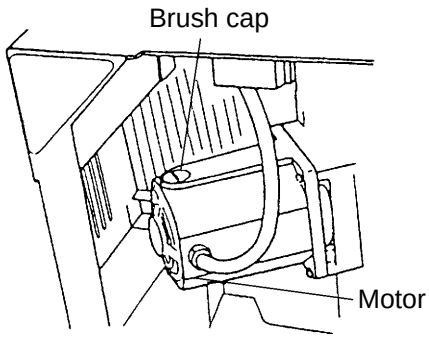


Fig. 24

9-3. Inspecting the Mounting Screws

Regularly inspect each component of the power tool for looseness. Re-tighten mounting screws on any loose part.

⚠WARNING: To prevent personal injury, never operate the power tool if any components are loose.

9-4. Inspecting the Saw Blade Guard for Proper Operation

Before each use of the tool, test the saw blade guard to assure that it is in good condition and that it moves smoothly. Never use the tool unless the saw blade guard operates properly and unless it is in good mechanical condition. Ensure the anti-kickback pawls (for the U.S.A., Australia and New Zealand) are always sharp so they dig into the workpiece and avoid kickback. If any damage has occurred, repair it promptly.

9-5. Regular Cleaning of the Saw Blade Guard

Wipe off waste chips from inside of the see-through saw blade guard (for the U.S.A., Australia and New Zealand) and the saw blade guard (for Europe) with a soft cloth or the like from time to time. Chips and waste disturb safe operation. Do not use solvents (gasoline, thinner etc.) which damage plastic parts.

9-6. Storage

Confirm that the switch is turned OFF, that the power plug has been removed from the receptacle and that the safety key has been removed (for the U.S.A., Australia and New Zealand) and stored in a secure place, after operation of the saw has been completed. When the saw is not in use, keep it stored in a dry place out of the reach of children.

9-7. Lubrication

Lubricate the following moving parts and rotating parts once a month to keep the saw in good operating condition for a long time. Use of machine oil is recommended.

Oil supply points: Rotary and moving portion of handle

9-8. Cleaning

Periodically remove chips and other waste material from the surface of the saw with a damp, soapy cloth.

To avoid a malfunction of the motor, protect it from contact with oil or water.

10. PRECAUTIONS IN DISASSEMBLY AND REASSEMBLY

Please follow the precautions below for disassembly and reassembly procedures. The circled numbers in the following figures and the **[Bold]** numbers in the descriptions below correspond to the item numbers in the Parts List and exploded assembly diagrams.

⚠**CAUTION: Prior to attempting disassembly or replacement of the saw blade, ensure that the power cord plug is disconnected from the power source.**

10-1. Disassembly

A. Disassembly of the saw blade section

Tools required:

- Phillips head screwdriver
- 10 mm wrench
- 22 mm wrench (standard accessory)
- 23 x 26 mm wrench (standard accessory)
- Hex. wrench (standard accessory for Europe)

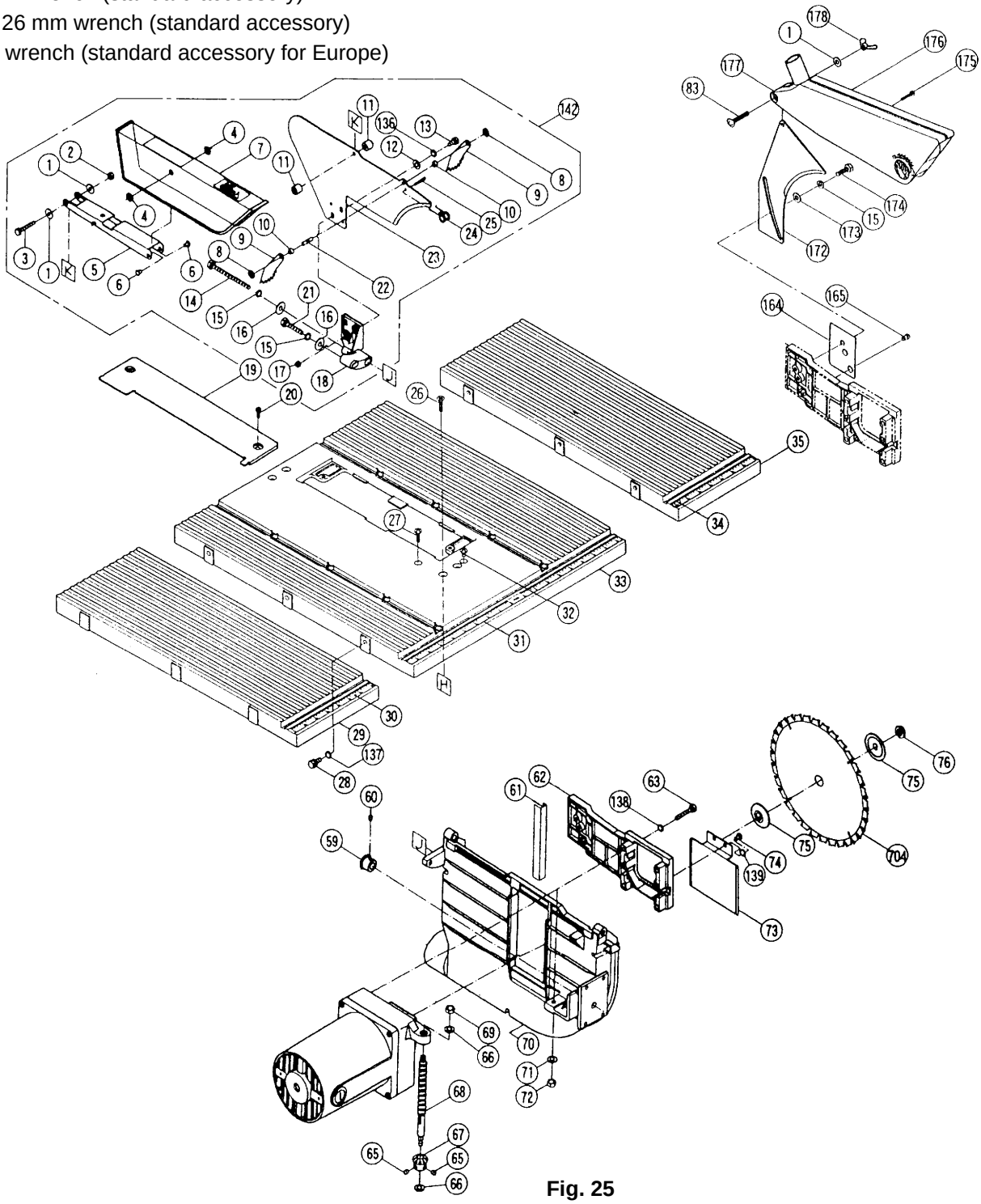


Fig. 25

(1) Remove the M6 x 60 Bolt **[14]** and M6 x 35 Bolt **[21]** using a 10 mm wrench, and remove the Saw Blade Guard and Spreader Assembly (Blade Guard **[7]** and Spreader **[23]**). (For the U.S.A., Australia and New Zealand)

Remove the M6 x 16 Bolt **[174]** with the hex. wrench, then remove the Saw Blade Guard and Splitter Assembly (the Blade Guard **[176]** and **[177]** and the Splitter **[172]**). (For Europe)

(2) Remove the two M5 x 8 Machine Screws **[20]** and remove the Table Insert **[19]**. (For the U.S.A., Australia and New Zealand)

Remove the two M5 x 16 Flat Hd. Screws **[20]** and remove the Insert **[19]**. (For Europe)

(3) Put the 22 mm Wrench (standard accessory) on the Spindle Ass'y **[201]** to hold it. Then, put the 23 mm end of the 23 x 26 mm Wrench (standard accessory) on the Set Nut **[76]**. Turn it counterclockwise to remove the nut, and remove Washer (A) **[75]**, the TCT Saw Blade **[704]** and Washer (A) **[75]** in this order.

Refer to Fig. 30 for the part numbers of the two-hundred level.

B. Disassembly of the switch section

Tools required:

• Phillips head screwdriver

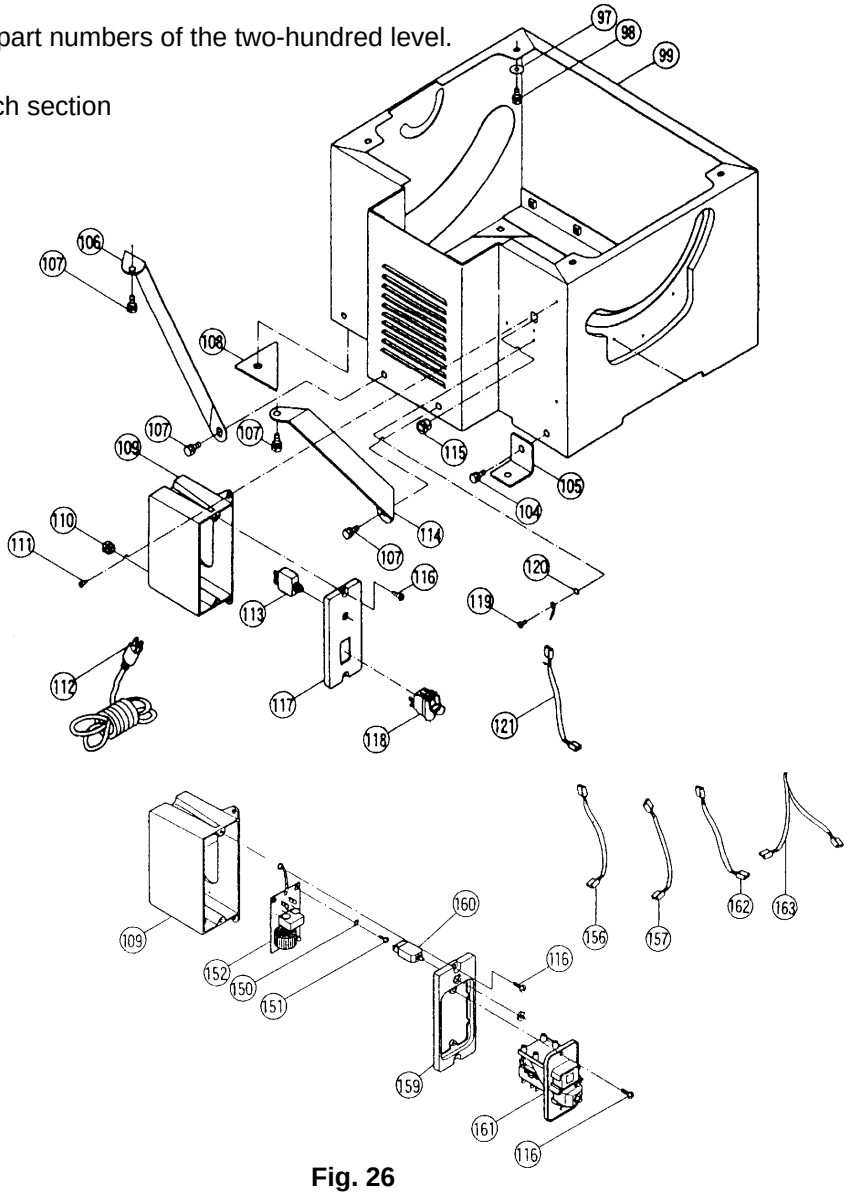


Fig. 26

(1) Remove the two D5 x 16 Tapping Screws **[116]** and remove the Switch Mtg. Plate **[117]**. Then, detach each lead wire connected to the Circuit Breaker Switch **[113]** and Rocker Switch **[118]**. (For the U.S.A., Australia and New Zealand)

Remove the two D5 x 16 Tapping Screws **[116]** and remove the Switch Cover **[159]**. Then, detach each lead wire connected to the Circuit Breaker Switch **[160]**, Electro Magnetic Disturbance **[152]** and NVR-Switch **[161]**. Remove the two D5 x 16 Tapping Screws **[116]** and remove the NVR-Switch. (For Europe)

(2) Remove the three D4 x 10 Tapping Screws **[111]** and remove the Switch Box **[109]**. Then, remove the two D4 x 10 Tapping Screws (Special) **[119]** and detach the ground wire (green/yellow).

C. Disassembly of the motor and wheel sections

Tools required:

- Phillips head screwdriver
- Flatblade acrewdriver
- 3 mm hexagon bar wrench
- 10 mm and 12 mm wrenches
- Plastic hammer

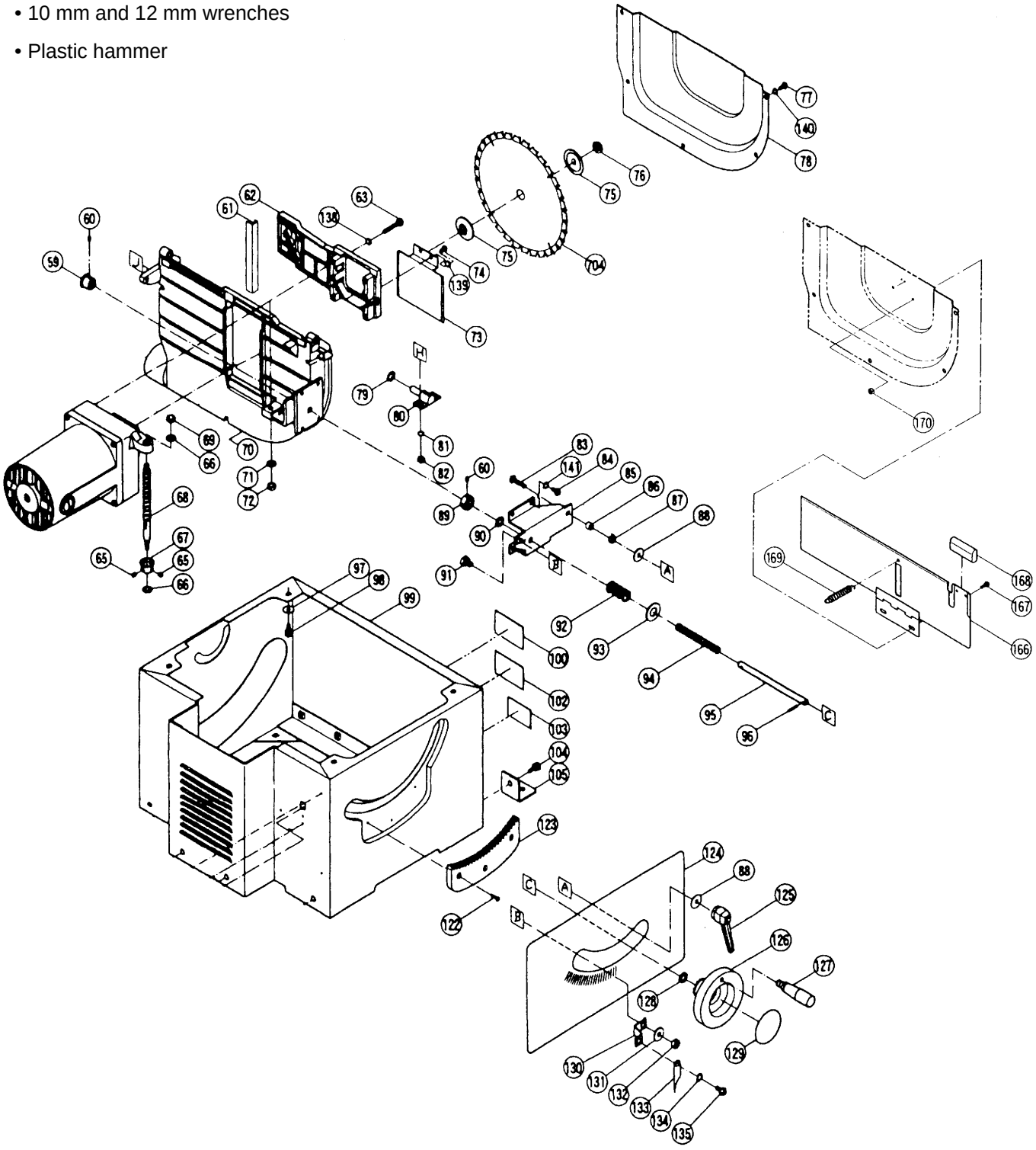


Fig. 27

(1) Turn the Wheel **[126]** counterclockwise and move the motor to the lower limit position. Turn the Tension Handle **[125]** counterclockwise to loosen and tilt the motor at an angle of 45 degrees. Turn the Tension handle **[125]** clockwise to tighten. Then, turn the body (Table **[33]** surface upside down.)

(2) Remove the two Brush Caps **[220]** and remove the two Carbon Brushes **[221]**.

(3) Remove the four M5 x 30 Machine Screws **[225]**, and remove the Housing Ass'y **[222]** (including the Stator **[218]**), Baffle **[215]**, and Armature Ass'y **[212]** in this order.

(4) Hold the Strain Relief **[227]** with the pliers and pull it out from the Housing Ass'y **[222]**.

(5) Remove the two D5 x 60 Tapping Screws **[216]**. Then, detach the lead wire of the Stator **[218]** from the Brush Holder **[223]**, and the ground wire connector on the Stator **[218]**. And, while lightly striking the mounting surface of the Bracket **[211]** of the Housing Ass'y **[222]** with the plastic hammer, draw out the Stator **[218]**.

(6) Loosen the two M6 x 6 Hex. Socket Set Screws **[60]** securing the Anchor Block **[89]** and the two M6 x 6 Hex. Socket Set Screws **[60]** securing Bevel Gear (A) **[59]**. Remove the Wheel **[126]**, the M 9.5 Flat Washer **[128]**, the Regulating Bolt **[95]**, the 57L Compression Spring **[94]**, the M16 Flat Washer **[93]**, the 20L Compression Spring **[92]**, the M9.5 Flat Washer **[90]**, the Anchor Block **[89]** and Bevel Fear (A) **[59]**.

(7) Remove the M8 x 16 Bolt **[91]** using a 12 mm wrench, and remove the Pointer Bracket **[130]** (including the Needle Pointer **[133]**).

(8) Turn the Tension Handle **[125]** counterclockwise to loosen, and remove it.

(9) Loosen the M6 Nut **[87]** using a 10 mm wrench, and remove the M6 x 25 Flat Washer **[88]**, the Spacer **[86]**, and the M6 x 35 Special Bolt **[83]**.

Refer to Fig. 30 for the part numbers of the 200 level.

D. Disassembly of the body and spindle sections

Tools required:

- Pillips head screwdriver
- 3 mm hexagon bar wrench
- 8 mm, 10 mm and 13 mm wrenches
- Plastic hammer

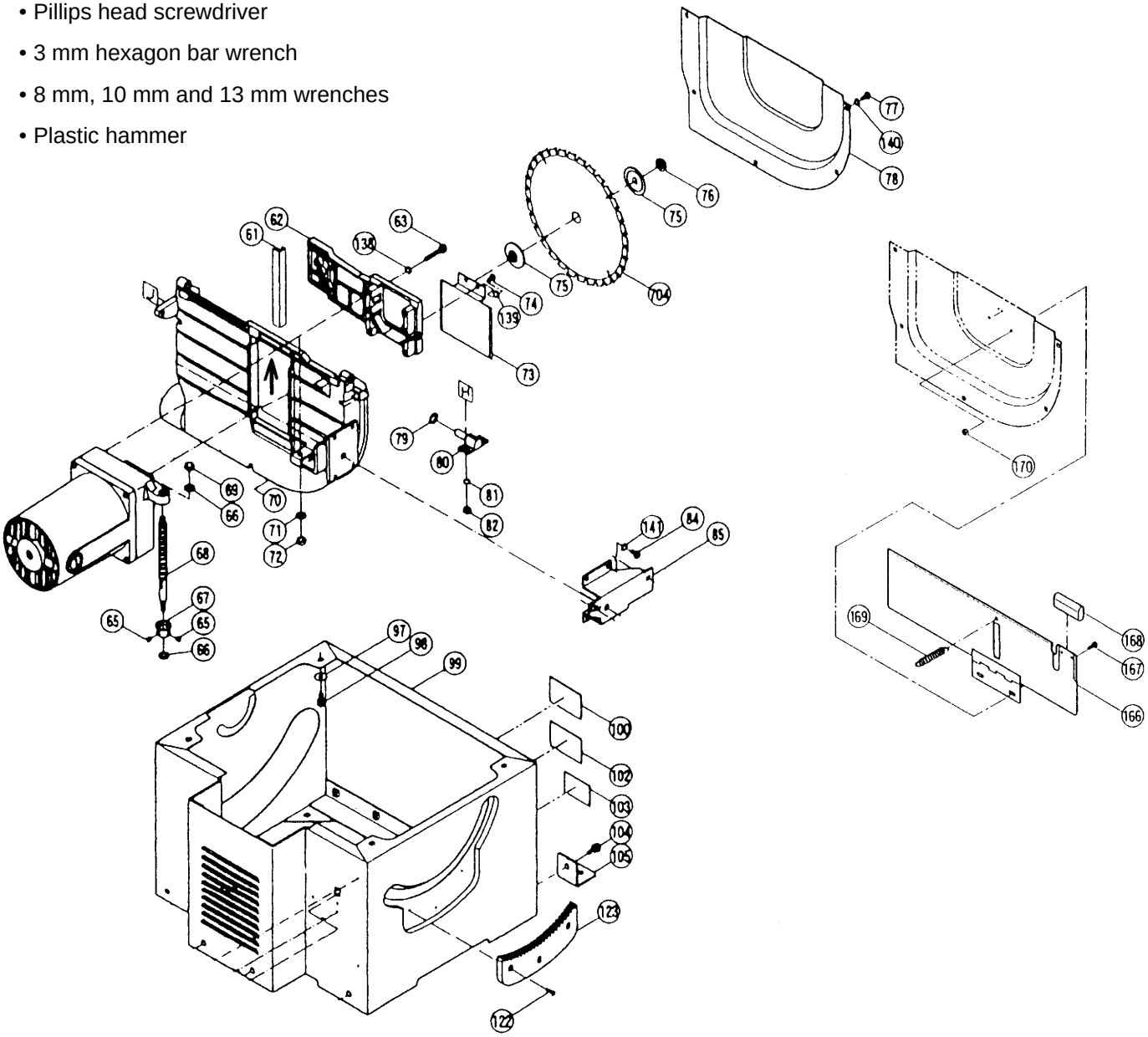


Fig. 28

(1) Remove the four M6 Nuts **[82]** using a 10 mm wrench, and remove the Body **[70]** from the Table **[33]**.

(2) Remove the four M6 x 12 Machine Screws **[84]**, and remove the Bracket **[85]**.

(3) Remove the five M6 x 12 Machine Screws **[77]**, and remove the Blade Guard **[78]**.
Remove the two M4 x 8 Machine Screws **[167]**, then remove the Blade Guard **[166]** (for Europe).

(4) Remove the M6 x 12 Machine Screw **[74]**, and remove the Guard **[73]**.

(5) Hold the Screw Bar **[68]** using an 8 mm wrench, and remove the M6 Special Nut Chuck **[72]** with a 10 mm wrench.

(6) Slide the Bracket **[211]** upward (in the direction of the arrow in Fig. 28) and loosen the two M6 x 6 Hex. Socket Set Screws **[65]**. Remove the M8 x 14.3 Flat Washer **[66]** and Bevel Fear (B) **[67]** from the Screw Bar **[68]**.

(7) Remove the four M6 x 35 Bolts **[63]** using a 10 mm wrench, and remove the Slide Bracket **[62]** and Bracket **[211]**.

(8) Remove the four M4 x 12 machine Screws **[203]**, and remove the Bearing Retainer **[205]**.

(9) Remove the Spindle Ass'y **[201]** by striking the Bracket **[211]** with a plastic hammer.

(10) Hold the Screw Bar **[68]** using an 8 mm wrench, and remove the M8 Nut Chuck **[69]** with a 13 mm wrench. Remove the Screw Bar **[68]** from the Bracket **[211]**.

(11) Remove the four M6 x 12 Bolts (with washers) **[98]** using a 10 mm wrench, and remove the Body Shell **[99]** from the Table **[33]**.

Refer to Fig. 30 for the part numbers of the 200 level.

E. Disassembly of the rip fence section (fence ass'y)

Tools required:

- Phillips head screwdriver
- Pliers

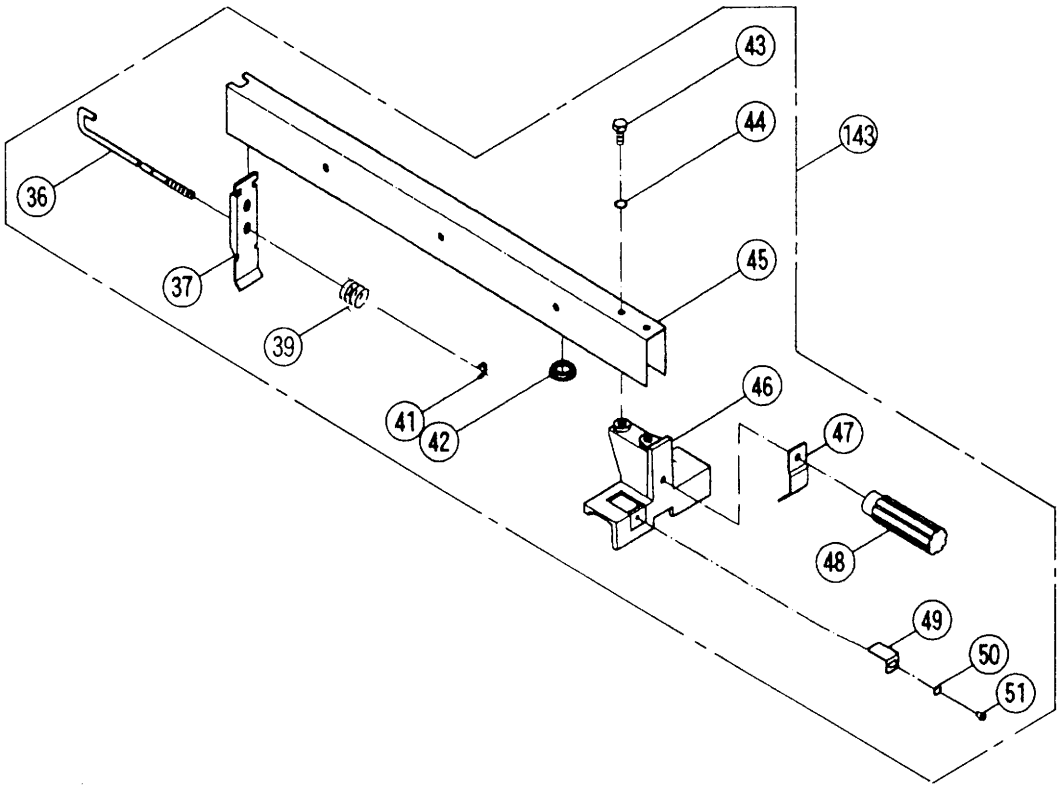


Fig. 29

(1) Remove Clamp Handle (A) **[48]** and the Front Clamp **[47]**.

(2) Remove the Retaining Ring (E-Type) **[41].** (At this time, hold the Locking Rod **[36]** to prevent it from coming out.) Then, remove the Locking Rod **[36]**, the 38L Compression Spring **[39]** and the Rear Clamp **[37]**.

(3) Remove the two M6 x 12 Bolts **[43]**, and separate the Parallel Bracket **[45]** and Width Body **[46]**.

(4) Remove the M5 x 6 Machine Screw **[51]**, and remove the Pointer **[49]**.

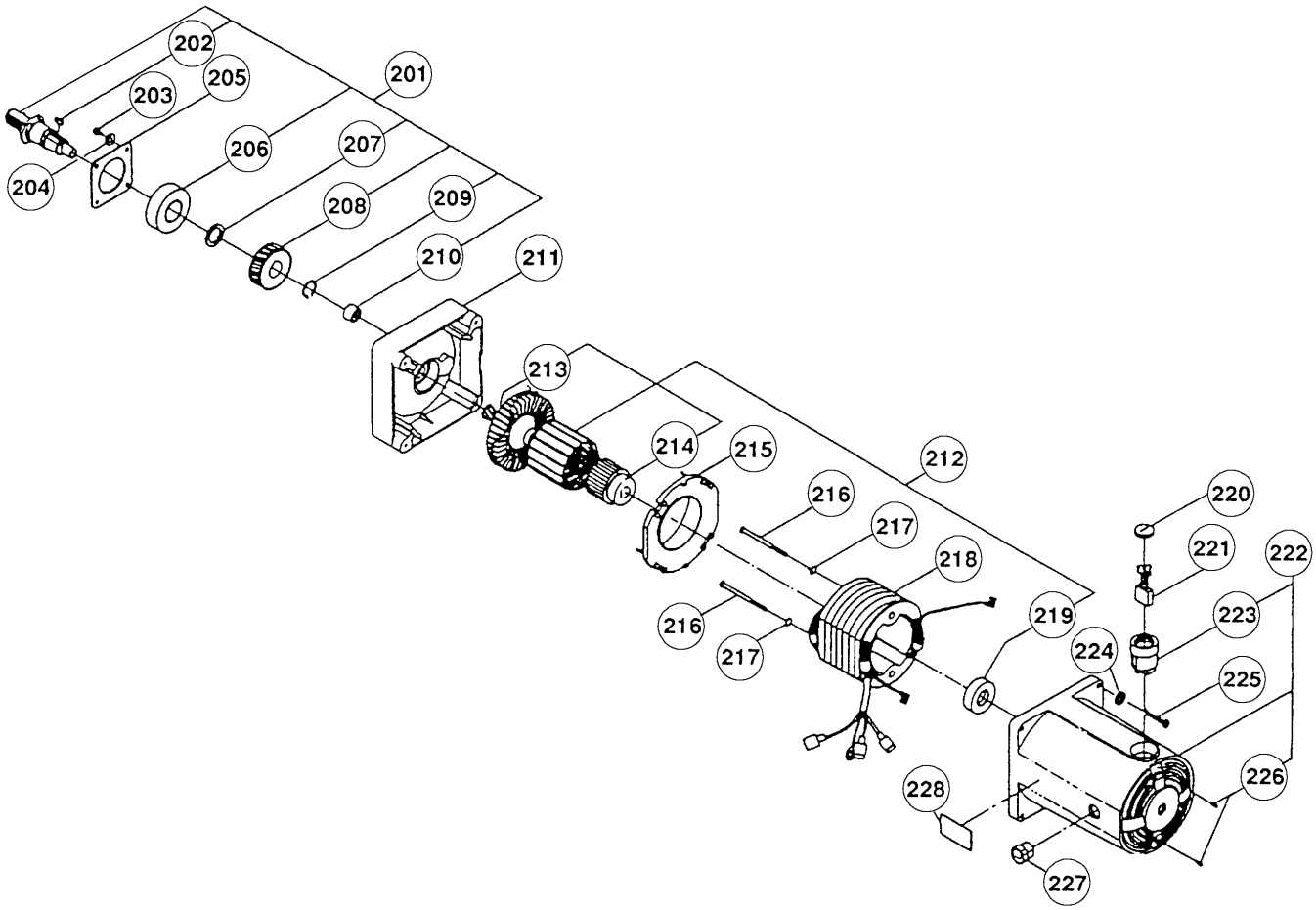

202
205
203
201
206
207
204
208
209
210
211
213
214
215
212
216
217
218
220
221
222
216
217
219
223
224
225
226
228
227

Fig. 30

10-2. Reassembly

Perform reassembly in reverse order of disassembly while observing the following precautions.

(1) Prior to reassembly, measure the insulation resistance of the armature ass'y, stator ass'y, switch and other electrical components with a DC 500 V Megohm Tester, and confirm that the insulation resistance of each part is more than 5 MΩ.

(2) Dielectric strength test

After testing the insulation resistance, apply 1,200 volts (for 100 ─ 127 V products) or 1,800 volts (for 220 ─ 240 V products) between the blade of the Power Cable **[112]** and the Body Shell **[99]** for one second with the Rocker Switch **[118]**, NVR-Switch **[161]** ON, to check that no dielectric breakdown will take place.

(3) No-load current value

The figures indicated below are the no-load current values after the machine is operated without load for 30 minutes.

No-load Current (max.): 8.5 A at AC single phase 110 V, 50 Hz

No-load Current (max.): 6.2 A at AC single phase 115 V, 60 Hz

No-load Current (max.): 3.9 A at AC single phase 230 V, 50 Hz

No-load Current (max.): 3.6 A at AC single phase 240 V, 50 Hz

(4) When assembling the Slide Plate **[61]**, see Fig. 31 for the direction in which it is mounted on the Body **[70]**. Thoroughly wipe off the old grease on the sliding portion between the Slide Plate **[61]**, and the Slide Bracket **[62]** and Bracket **[211]**.

Then apply two grams of motor grease No. 29 (Code No. 930035) there. Thoroughly wipe off the old grease in the gear box of the Bracket **[211]**, and apply two grams of motor grease No. 29 (Code No. 930035) to the Needle Bearing **[210]**. Also thoroughly wipe off the old grease on teeth of the Helix Gear **[208]** in the Spindle Ass'y **[201]**, pinion of the Armature Ass'y **[212]**, thread portion of the Screw Bar **[68]**, and teeth of Bevel Gear (A) **[59]** and Bevel Gear (B) **[67]**. Then apply motor grease No. 29 (Code No. 930035).

Refer to Fig. 30 for the part numbers of the 200 level.

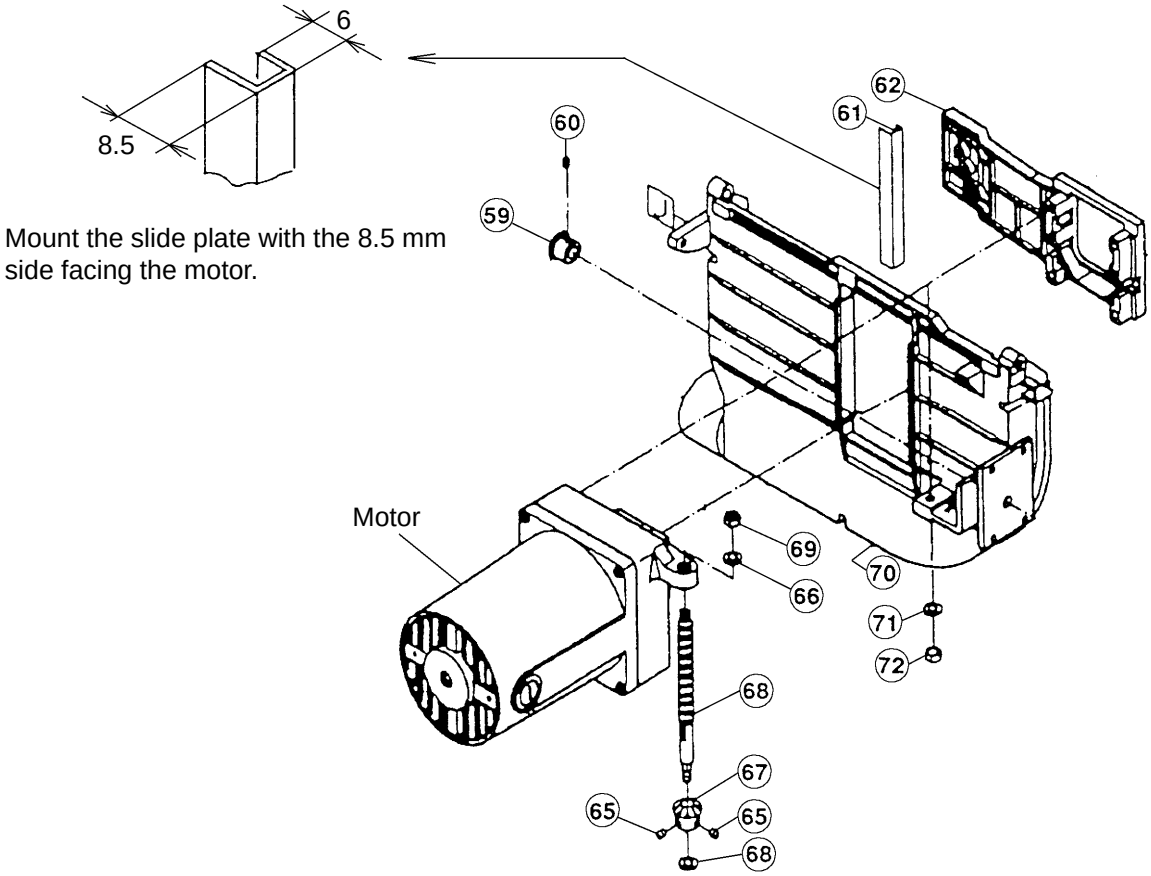


Fig. 31

10-3. Wiring

Wiring should be performed as shown in Fig. 32., Fig. 33, Fig. 34, Fig. 35. Please note that incorrect wiring will result in a failure in rotation.

(1) Wiring diagram

① 110 V

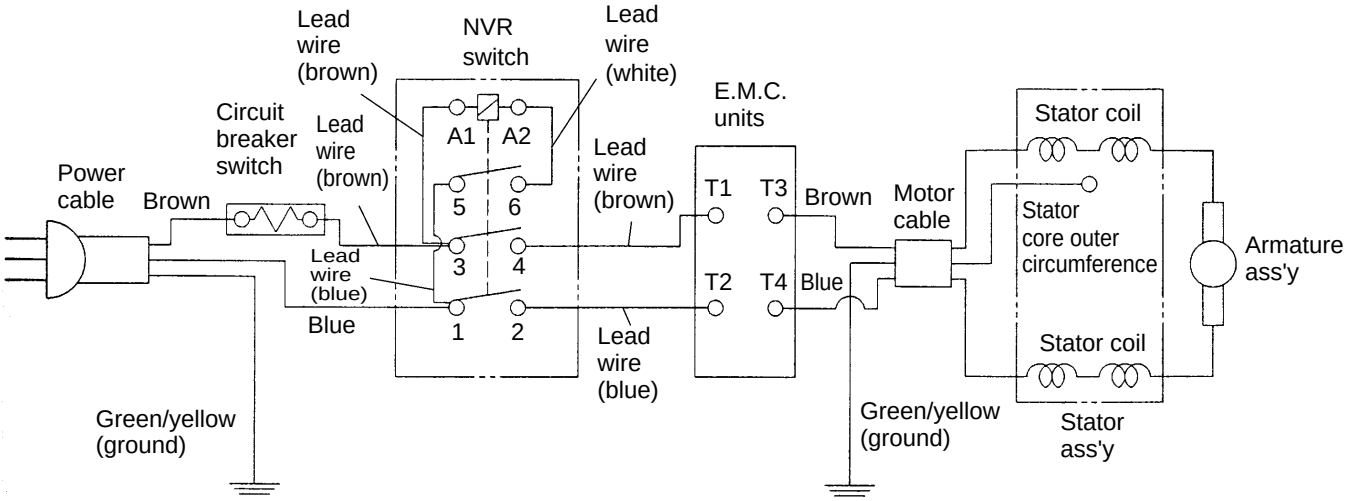


Fig. 32

② 115 V

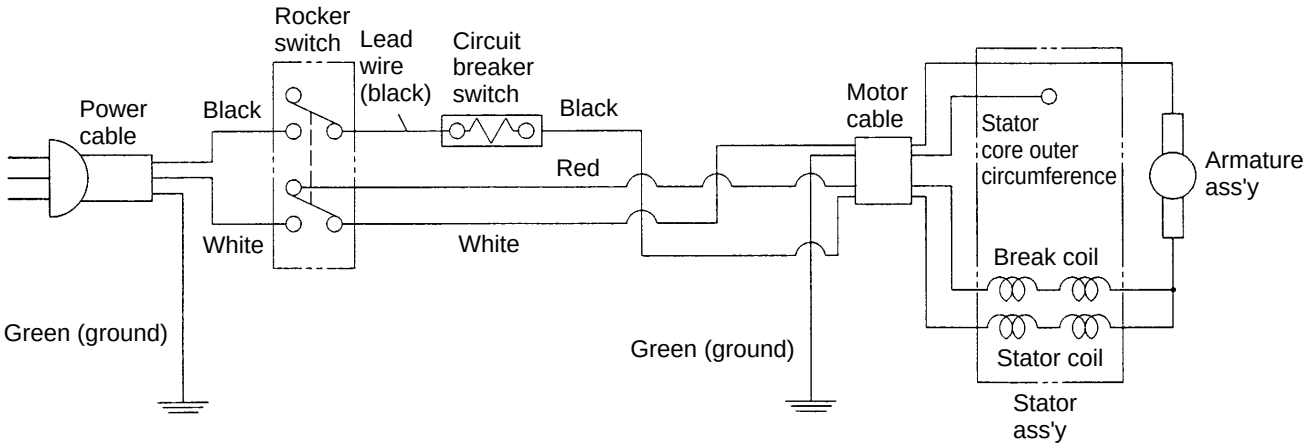


Fig. 33

③ 230 V

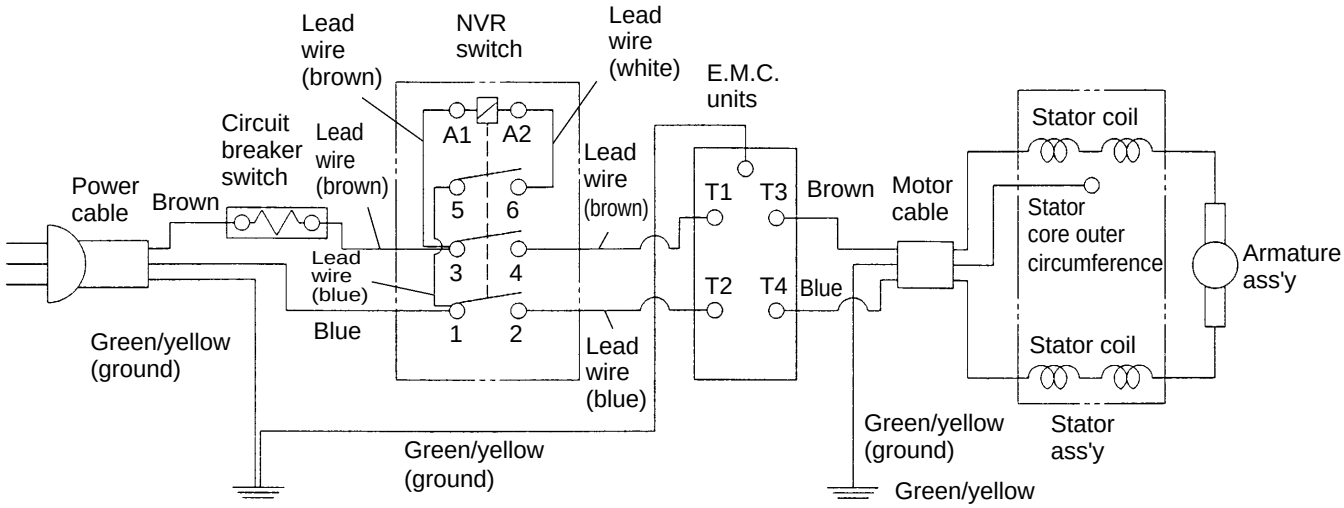


Fig. 34

④ 240 V

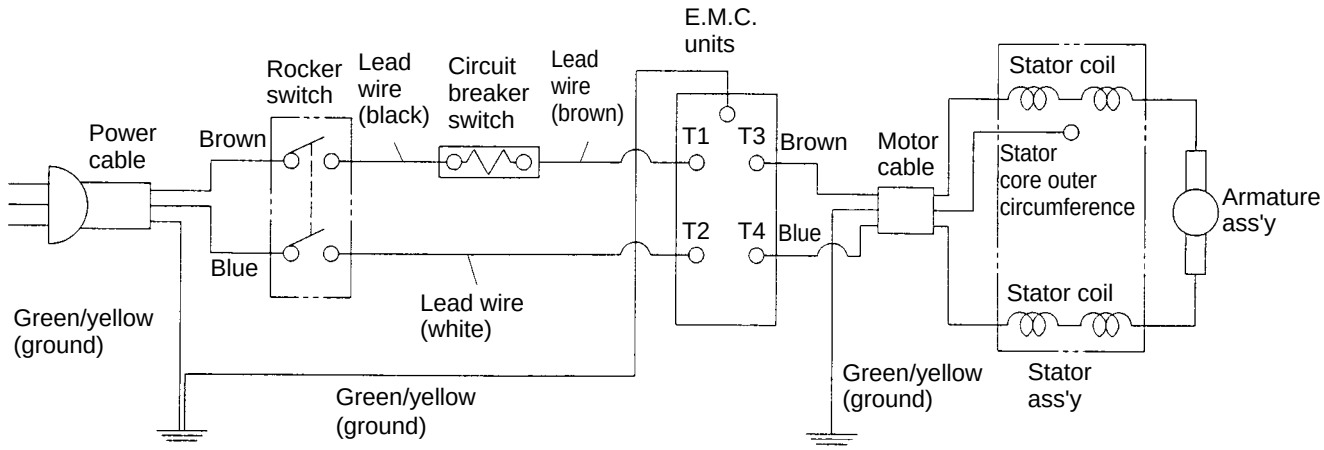


Fig. 35

(2) Lead wire arrangements

① 110 V

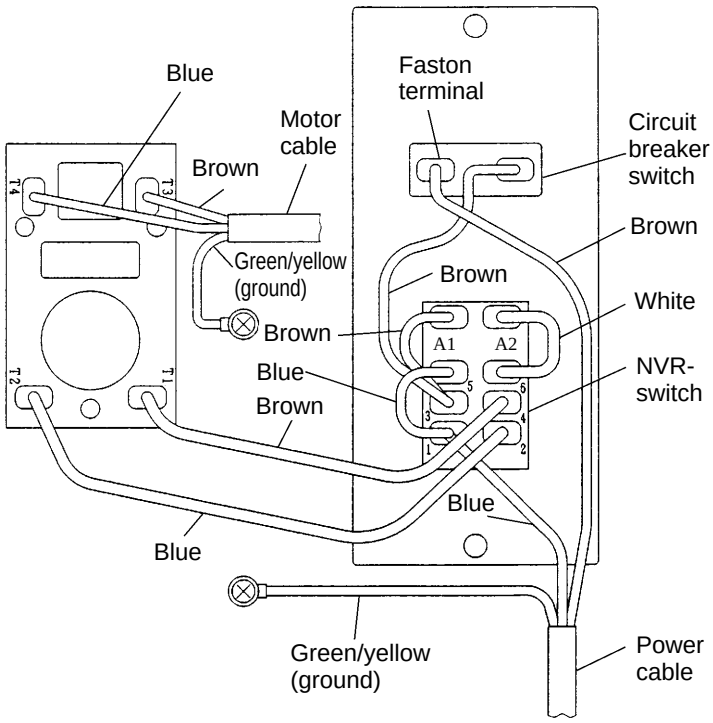


Fig. 36

② 115 V

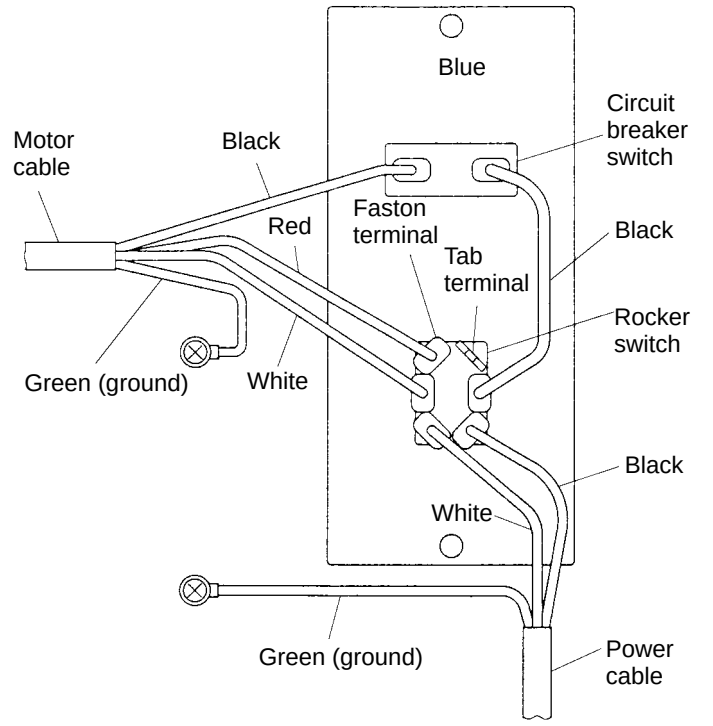


Fig. 37

③ 230 V

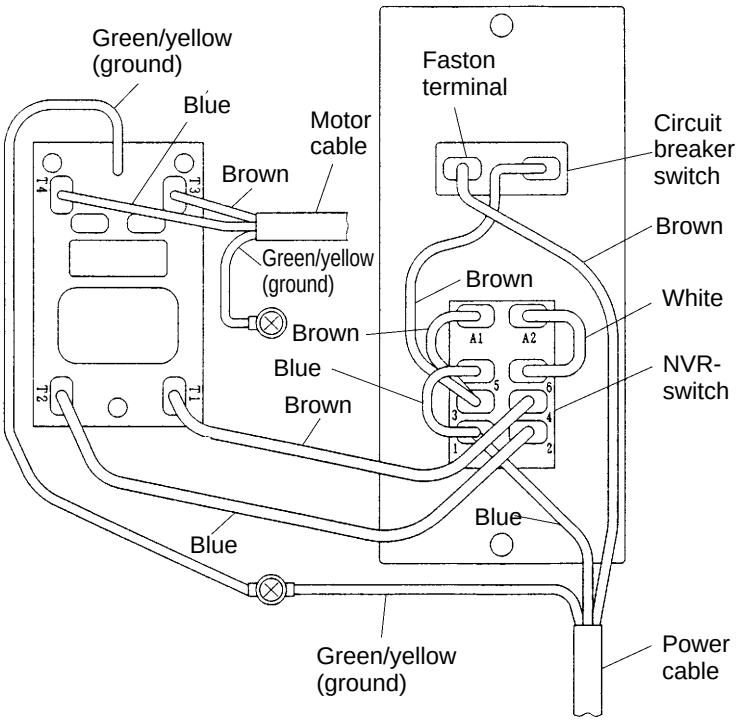


Fig. 38

④ 240 V

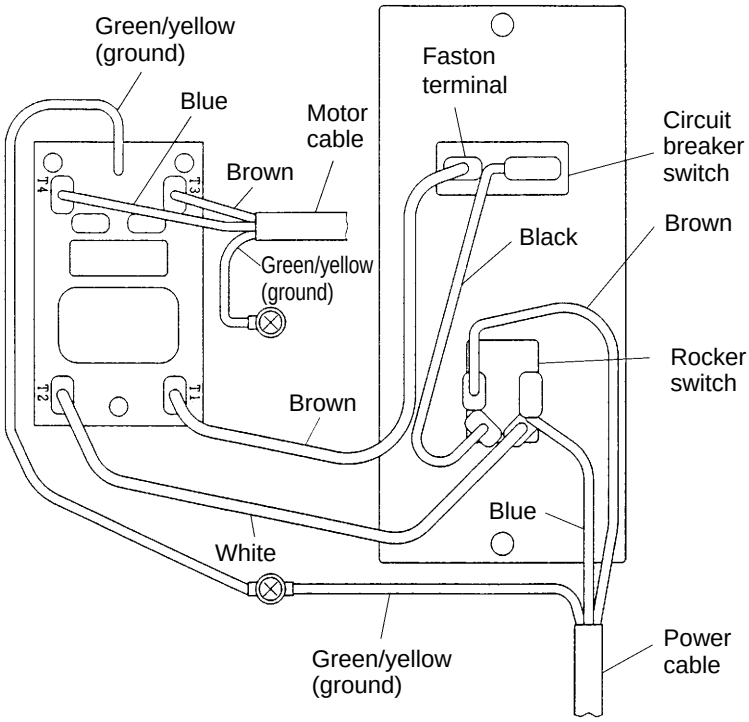


Fig. 39

When connecting each lead wire to the circuit breaker, and rocker switch or NVR-switch the faston terminals must be completely inserted into the corresponding tab terminals.

10-4. Adjustments

After disassembly and reassembly, the following parts require adjustment.

After being disassembled and reassembled, the affected items should be adjusted. For adjustment, see the adjusting method described in 8-3. Adjustment on page 15.

(1) Parallel alignment of the saw blade and the miter-gauge groove

(2) Saw blade squareness and tilting 45° stopper position

(3) Parallel alignment of the rip fence and the miter-gauge groove

(4) Pointer position of the rip fence

(5) Squareness between the miter gauge and the saw blade

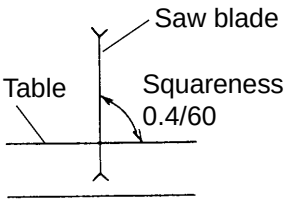
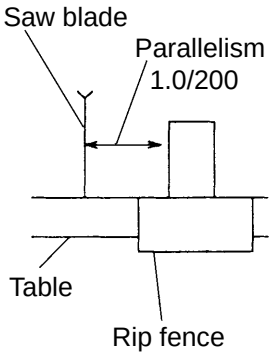
(6) Position of the spreader with respect to the saw blade (see 8-2-4 (2) Adjusting the spreader on page 11.)

10-5. Product precision

After the reassembly is completed, check the precision of the product.

Item	
Run out of dummy disc	0.38/230
Squareness between dummy disc and stable upper surface	0.4/60
Parallelism between dummy disc and miter-gauge groove	0.4/200
Parallelism between dummy disc and rip fence	1.0/200

11. REPAIR GUIDE

No.	Problem	Possible cause	Factory rated value	Remedy
1	Low cutting accuracy – poor squareness of cut surface  (Note) Unit: mm/mm **Fig. 40**	a) Because of poor squareness between the table and saw blade, the saw blade enters the material at a slant.	0.4/60 (Dummy disc) (Fig. 40)	• Readjust the squareness of the saw blade using the M6 x 20 Seal Lock Screw **[27]**.
		b) Large run out of saw blade. (Large vibration)	0.38/230 (Dummy disc)	• Replace the Saw Blade **[704]**. • Check Washer (A) **[75]** for dents, etc. If any, remove with a file. • Replace Washer (A) **[75]**.
		c) Poor parallelism of table upper surface.	1.0 /200 or under	• Replace Table **[33]**.
		d) Poor parallelism between the table and the extension wing.	1.5/200 or under	• Loosen the M8 x 20 Bolt (W/ Washers) **[107]**, and readjust the parallelism between the Table **[33]**, and Extension Wing (R) **[35]** and Extension Wing (L) **[29]**. • Replace Extension Wing (R) **[35]** or Extension Wing (L) **[29]**.
	 (Note) Unit: mm/mm **Fig. 41**	e) Poor parallelism between the miter-gauge groove and saw blade.	0.4/200 (Dummy disc)	• Loosen the M6 x 25 Flat Hd. Screw **[26]**, and readjust the parallelism between the miter-gauge groove and the saw blade.
		f) Poor parallelism between the rip fence and saw blade.	1.0/200 (Dummy disc) (Fig. 41)	• Loosen the M6 x 12 Bolt **[43]**, and readjust the parallelism between the rip fence and the saw blade.
		g) A too fast cutting speed causes the saw blade to deflect and results in low accuracy.	—	• Slow down the cutting speed. (Proper speed is 7 seconds for 50 mm rectangular lumber.)
		h) Excessive force is applied because of a dull saw blade.	—	• Sharpen the Saw Blade **[704]**. • Replace the Saw Blade **[704]**.
		i) Deformation of the material such as a curvature or bend causes the material to move during cutting.	—	• Correct the curvature or bend by planing the material, and cut again.

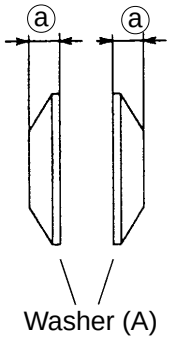
<table>
<tr><th>No.</th><th>Problem</th><th>Possible cause</th><th>Factory rated value</th><th>Remedy</th></tr>
<tr><td rowspan="4">2</td><td rowspan="4">Poor cut surface
Parallelism ⓐ = 0.02/63
 

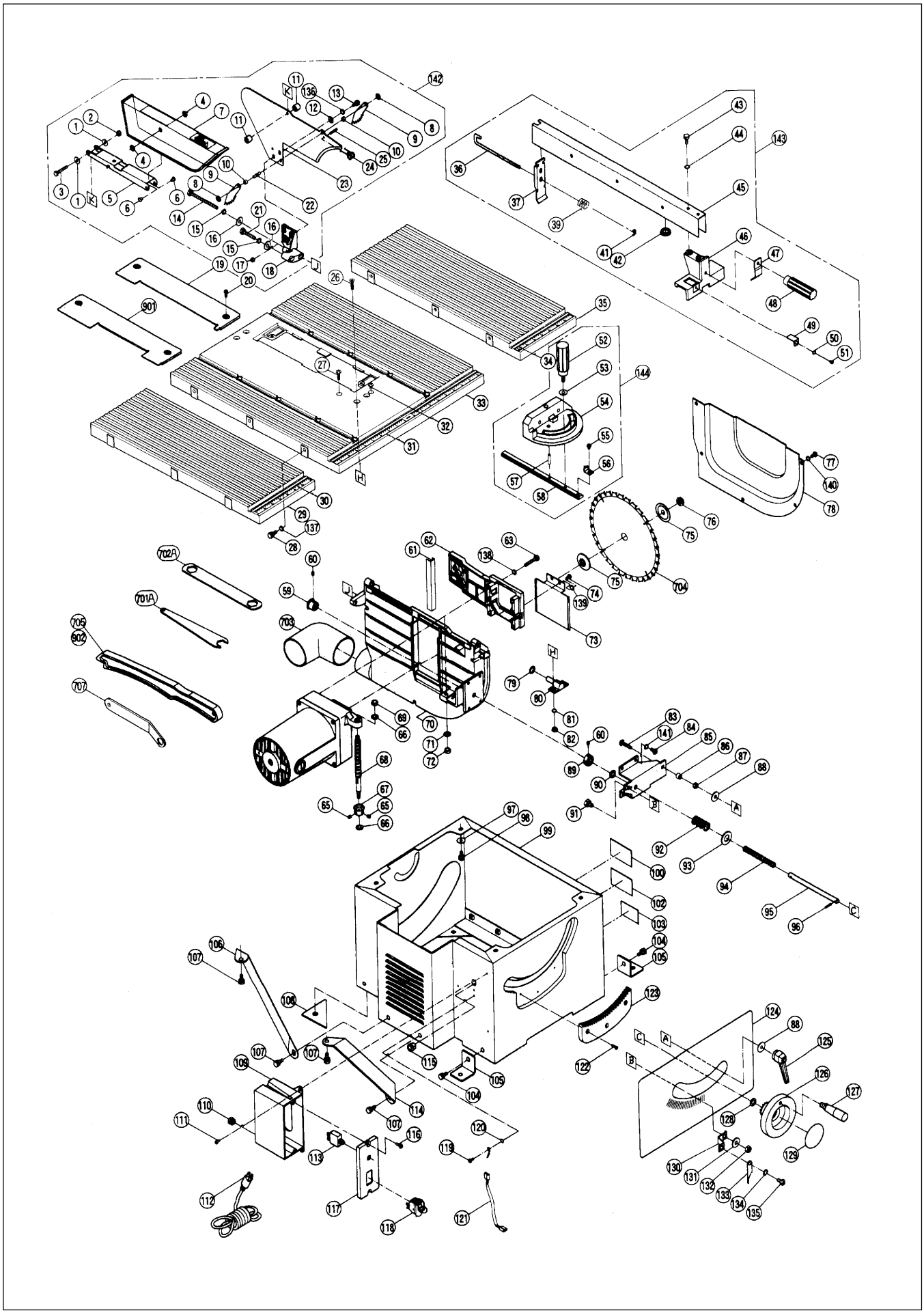
Fig. 42</td><td>a) Large run out of saw blade. (Large run out results in poor cut grain.)</td><td>(Dummy disc)</td><td>• Same as item No. 1, (b).</td></tr>
<tr><td>b) Poor parallelism of washer (A) due to dents or flaws.</td><td>Washer (A) (Fig. 42)</td><td>• Remove dents or flaws on Washer (A) [75], or replace.</td></tr>
<tr><td>c) Cutting speed too fast.</td><td>—</td><td>• Slow down the cutting speed.</td></tr>
<tr><td>d) During cutting, the material becomes rough because of its curvature, bend, etc.</td><td>—</td><td>• Eliminate the curvature, bend, etc. in the material by planing.</td></tr>
<tr><td rowspan="5">3</td><td rowspan="5">The saw blade locks up.</td><td>a) Cutting speed too fast.</td><td>—</td><td>• Slow down the cutting speed.</td></tr>
<tr><td>b) Thin extension cord.</td><td>—</td><td>The usable extension cords are as follows:
<table><tr><td>Ampere rating</td><td>5.1 to 7.0</td><td>12.1 to 16.0</td></tr><tr><td>Ext. cord length</td><td colspan="2">Wire gauge size</td></tr><tr><td>25 ft. (7.5 m)</td><td>18 A.W.G. (1.0 mm²)</td><td>14 A.W.G. (2.0 mm²)</td></tr><tr><td>50 ft. (15 m)</td><td>16 A.W.G. (1.5 mm²)</td><td>12 A.W.G. (3.5 mm²)</td></tr><tr><td>75 ft. (22.5 m)</td><td>14 A.W.G. (2.0 mm²)</td><td>10 A.W.G. (5.5 mm²)</td></tr></table></td></tr>
<tr><td>c) Excessive force is applied because of a dull saw blade.</td><td>—</td><td>• Shapen the Saw Blade [704].
• Replace the Saw Blade [704].</td></tr>
<tr><td>d) Wrong selection of saw blade.</td><td>—</td><td>• Use a genuine Hitachi saw blade.
• The higher the number of teeth of a saw blade, the more cutting resistance increases. Where a saw blade with many teeth is used, cut slowly.</td></tr>
<tr><td>e) During cutting, the material binds the saw blade because of a deformation such as curvature and bend.</td><td>–</td><td>• Eliminate the curvature, bend, etc. in the material by planing.</td></tr>
</table>

<table>
<tr><th>No.</th><th>Problem</th><th>Possible cause</th><th>Factory rated value</th><th>Remedy</th></tr>
<tr><td rowspan="4">4</td><td rowspan="4">The saw blade won't turn even if the switch is turned on.</td><td>a) Power cord is not connected to the power outlet.</td><td>—</td><td>• Check the power voltage.
• Plug the power cord into the outlet.</td></tr>
<tr><td>b) Wear of the carbon brushes has exceeded the wear limit (5 mm).</td><td>—</td><td>• Check the Carbon Brushes [221].
• Replace the Carbon Brushes [221].</td></tr>
<tr><td>c) Switch failure.</td><td>—</td><td>• Check the Rocker Switch [118], the NVR-Switch [161] and the Circuit Breaker Switch [113] for continuity.
• Replace the Check Rocker Switch [118], the NVR-Switch [161] or the Circuit Breaker Switch [113].</td></tr>
<tr><td>d) The circuit breaker switch activated.</td><td>—</td><td>• Press the reset button after 2 to 3 minutes.</td></tr>
<tr><td>5</td><td>Slow saw blade rotation.
The saw blade speed is less than 5,000 /min.</td><td>a) Power voltage lower than rated voltage.</td><td>4,500 – 5,500 /min</td><td>• Check the power voltage.
• Check if the extension cord used is nonstandard. The usable extension cords are as follows:
<table>
<tr><td>Ampere rating</td><td>5.1 to 7.0</td><td>12.1 to 16.0</td></tr>
<tr><td>Ext. cord length</td><td colspan="2">Wire gauge size</td></tr>
<tr><td>25 ft. (7.5 m)</td><td>18 A.W.G. (1.0 mm^2)</td><td>14 A.W.G. (2.0 mm^2)</td></tr>
<tr><td>50 ft. (15 m)</td><td>16 A.W.G. (1.5 mm^2)</td><td>12 A.W.G. (3.5 mm^2)</td></tr>
<tr><td>75 ft. (22.5 m)</td><td>14 A.W.G. (2.0 mm^2)</td><td>10 A.W.G. (5.5 mm^2)</td></tr>
</table></td></tr>
<tr><td>6</td><td>Fast saw blade speed.
The saw blade speed is more than 5,000 /min.</td><td>a) Power voltage higher than rated voltage.</td><td>4,500 – 5,500 /min</td><td>• Check the power voltage.</td></tr>
</table>

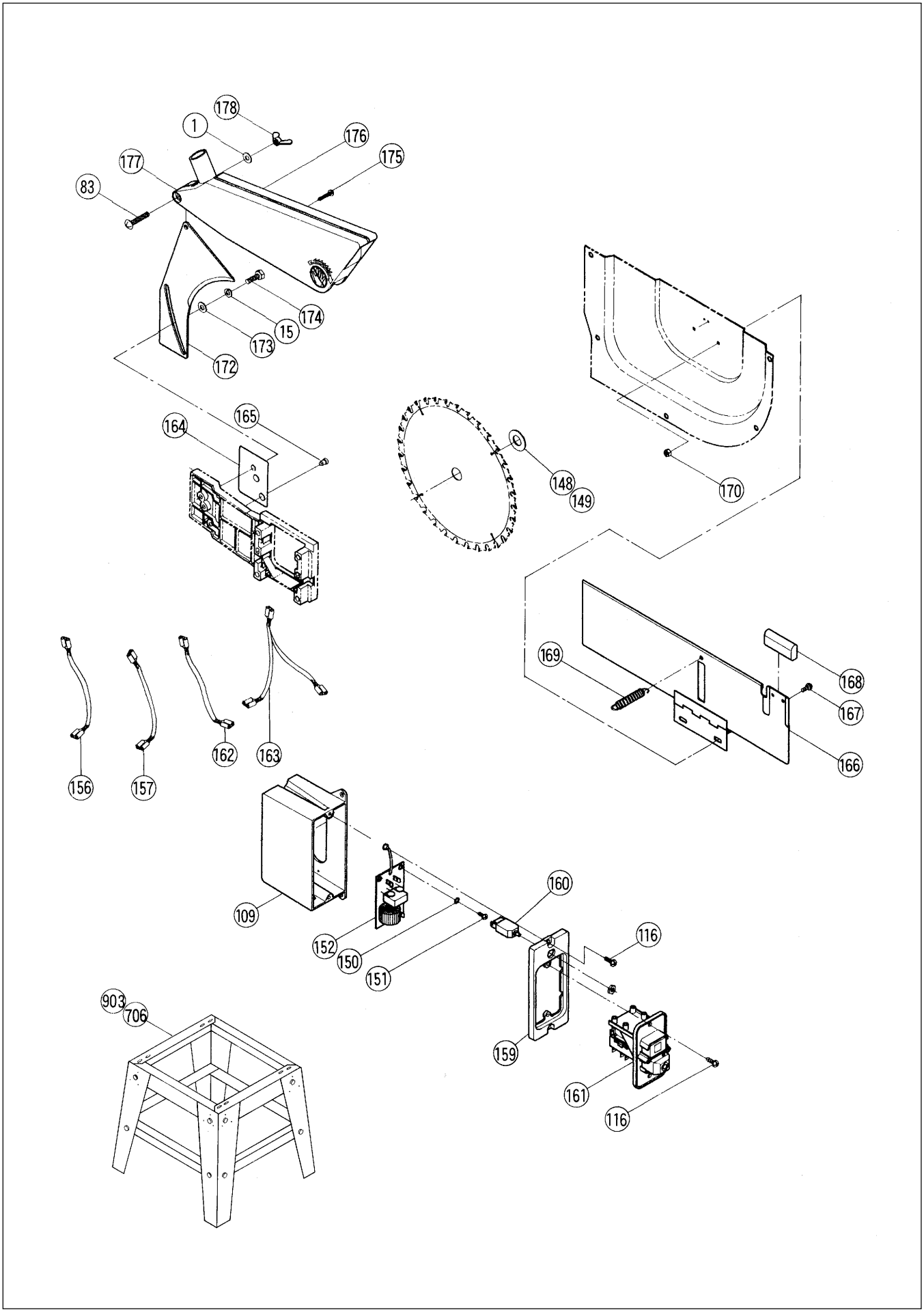
12. STANDARD REPAIR TIME (UNIT) SCHEDULES

MODEL	Variable / Fixed	10	20	30	40	50	60	70 min.
C 10RA		Wark Flow						
		Extension Wing (L) Extension Wirg (R)						
	General Assembly	Circuit Breaker Switch Switch MTG. Plate Rocker Switch NVR-Switch Power Cable	Switch Box					
	Blade Guard Spreader (Splitter) Switch MTG. plate — 0 min. Other: 10 min.	Spreader (Splitter) TCT Saw Blade Washer (A) Blade Guard	Pivot Support Anchor Block Regulating Bolt Wheel Slide Bracket Compression Spring	Segment Gear Hitachi Label Screw Bar Bevel Gear (B)	Bracket	Body		Body Shell Table
		Carbon Brush					Armature Ass'y Bracket Spindle Ass'y Ball Bearing Helix Gear	Housing Ass'y Stator

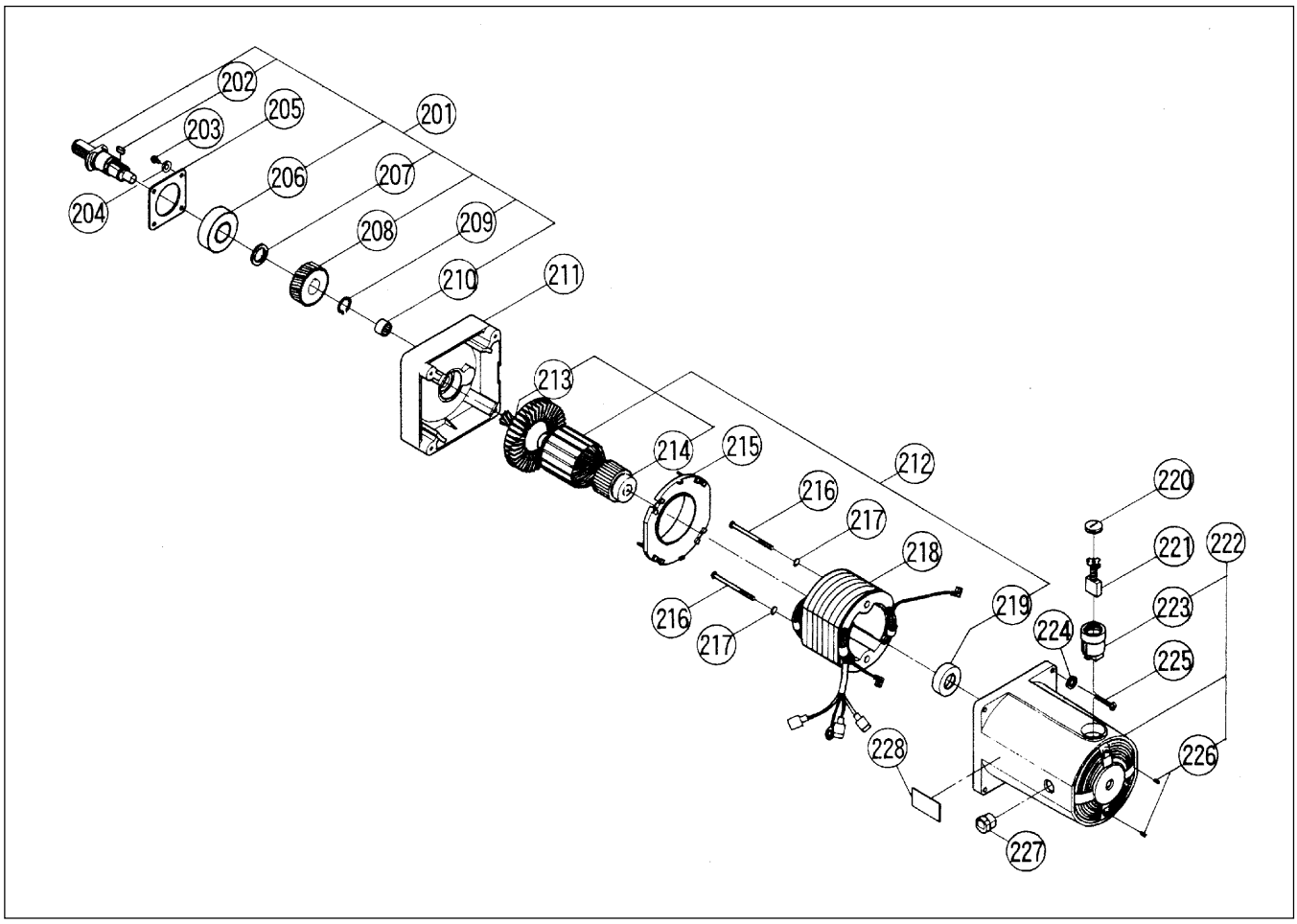
Assembly Diagram for C 10RA



Assembly Diagram for C 10RA



Assembly Diagram for C 10RA



	ITEM No.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
*	1	314-473	FLAT WASHER M6	2	FOR USA,AUS,NZL	
*	1	314-473	FLAT WASHER M6	1	FOR GBR,FRG,BEL,ITA	
*	2	314-474	NUT CHUCK M6	1	FOR USA,AUS,NZL	
*	3	949-644	BOLT M6X40 (10 PCS.)	1	FOR USA,AUS,NZL	
*	4	314-476	SELF-LOCKING RING	2	FOR USA,AUS,NZL	
*	5	314-477	ARM	1	FOR USA,AUS,NZL	
*	6	314-478	RIVET	2	FOR USA,AUS,NZL	
*	7	314-479	BLADE GUARD	1	FOR USA,AUS,NZL	
*	8	314-443	SELF-LOCKING RING	2	FOR USA,AUS,NZL	
*	9	314-444	KICK BACK PAWL	2	FOR USA,AUS,NZL	
*	10	314-445	BUSHING	2	FOR USA,AUS,NZL	
*	11	314-480	BUSHING	2	FOR USA,AUS,NZL	
*	12	973-361	WASHER	2	FOR USA,AUS,NZL	
*	13	949-613	BOLT M6X16 (10 PCS.)	2	FOR USA,AUS,NZL	
*	14	314-482	BOLT M6X60	1	FOR USA,AUS,NZL	
*	15	949-455	SPRING WASHER M6 (10 PCS.)	2	FOR USA,AUS,NZL	
*	15	949-455	SPRING WASHER M6 (10 PCS.)	1	FOR GBR,FRG,BEL,ITA	
*	16	949-432	BOLT WASHER M6 (10 PCS.)	2	FOR USA,AUS,NZL	
*	17	949-556	NUT M6 (10 PCS.)	2	FOR USA,AUS,NZL	
*	18	314-483	GUARD BRACKET	1	FOR USA,AUS,NZL	
*	19	314-484	TABLE INSERT FOR SAW BLADE	1	FOR USA,AUS,NZL	
*	19	317-168	INSERT FOR SAW BLADE	1	FOR GBR,FRG,BEL,ITA	
*	20	949-235	MACHINE SCREW M5X8 (10 PCS.)	2	FOR USA,AUS,NZL	
*	20	949-334	FLAT HD. SCREW M5X16 (10 PCS.)	2	FOR GBR,FRG,BEL,ITA	
*	21	949-803	BOLT M6X35 (10 PCS.)	1	FOR USA,AUS,NZL	
*	22	314-446	ROLL PIN	1	FOR USA,AUS,NZL	
*	23	314-485	SPREADER	1	FOR USA,AUS,NZL	
*	24	314-447	SPRING	1	FOR USA,AUS,NZL	
*	25	949-870	ROLL PIN D4X22 (10 PCS.)	1	FOR USA,AUS,NZL	
	26	949-342	FLAT HD. SCREW M6X25 (10 PCS.)	4		
	27	314-486	SEAL LOCK SCREW M6X20	1		
	28	949-676	BOLT M6X20 (10 PCS.)	6		
	29	314-488	EXTENSION WING (L)	1		
*	30	314-448	SCALE (L)	1	FOR USA	
*	30	317-139	SCALE (L)	1	FOR AUS,NZL	
*	31	314-449	SCALE	1	FOR USA	
*	31	317-140	SCALE	1	FOR AUS,NZL,GBR,FRG,BEL,ITA	
	32	314-490	SEAL LOCK SCREW M6X10	1		
	33	314-491	TABLE	1		
*	34	314-450	SCALE (R)	1	FOR USA	
*	34	317-141	SCALE (R)	1	FOR AUS,NZL	
	35	314-492	EXTENSION WING (R)	1		
	36	314-493	LOCKING ROD	1		
	37	314-494	REAR CLAMP	1		
	39	314-496	COMPRESSION SPRING 38L	1		
	41	955-479	RETAINING RING (E-TYPE) FOR D6 SHAFT	1		
	42	314-498	CUP	2		
	43	949-611	BOLT M6X12 (10 PCS.)	2		
	44	314-499	TOOTHED LOCK WASHER M6	2		
	45	314-500	PARALLEL BRACKET	1		
	46	314-501	WIDTH BODY	1		

	ITEM No.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
	47	314-502	FRONT CLAMP	1		
	48	314-503	CLAMP HANDLE (A)	1		
	49	314-504	POINTER	1		
	50	949-431	BOLT WASHER M5 (10 PCS.)	1		
	51	949-234	MACHINE SCREW M5X6 (10 PCS.)	1		
	52	314-505	CLAMP HANDLE (B)	1		
	53	314-506	FLAT WASHER M6.4	1		
	54	314-507	MITER GAUGE	1		
	55	949-234	MACHINE SCREW M5X6 (10 PCS.)	1		
	56	314-509	ANGLE POINTER	1		
	57	314-510	PIN	1		
	58	314-511	SHEET BAR	1		
	59	314-512	BEVEL GEAR (A)	1		
	60	967-469	HEX. SOCKET SET SCREW M6X6	4		
	61	314-513	SLIDE PLATE	2		
	62	314-514	SLIDE BRACKET	1		
	63	949-803	BOLT M6X35 (10 PCS.)	4		
	65	967-469	HEX. SOCKET SET SCREW M6X6	2		
*	66	314-516	FLAT WASHER M8X14.3	2	FOR USA,AUS,NZL	
*	66	314-516	FLAT WASHER M8X14.3	1	FOR GBR,FRG,BEL,ITA	
	67	314-517	BEVEL GEAR (B)	1		
	68	314-518	SCREW BAR	1		
	69	314-519	NUT CHUCK M8	1		
*	70	314-520	BODY	1	FOR USA,AUS,NZL	
*	70	317-160	BODY	1	FOR GBR,FRG,BEL,ITA	
	71	314-521	FLAT WASHER M6.4X12.7	1		
	72	314-522	SPECIAL NUT CHUCK M6	1		
	73	314-523	GUARD	1		
	74	949-255	MACHINE SCREW M6X12 (10 PCS.)	1		
	75	314-454	WASHER (A)	2		
*	76	314-455	SET NUT	1	FOR USA,AUS,NZL	
*	76	317-174	SET NUT	1	FOR GBR,FRG,BEL,ITA	
	77	949-255	MACHINE SCREW M6X12 (10 PCS.)	5		
	78	314-526	BLADE GUARD	1		
	79	314-527	FLAT WASHER M8X15	2		
	80	314-528	PIVOT SUPPORT	2		
	81	949-455	SPRING WASHER M6 (10 PCS.)	4		
	82	949-556	NUT M6 (10 PCS.)	4		
*	83	314-529	SPECIAL BOLT M6X35	1	FOR USA,AUS,NZL	
*	83	314-529	SPECIAL BOLT M6X35	2	FOR GBR,FRG,BEL,ITA	
	84	949-255	MACHINE SCREW M6X12 (10 PCS.)	4		
	85	314-530	BRACKET	1		
	86	314-531	SPACER	1		
	87	949-556	NUT M6 (10 PCS.)	1		
	88	314-532	FLAT WASHER M6X25	2		
	89	314-533	ANCHOR BLOCK	1		
	90	314-534	FLAT WASHER M9.5	1		
	91	949-622	BOLT M8X16 (10 PCS.)	1		
	92	314-535	COMPRESSION SPRING 20L	1		
	93	314-536	FLAT WASHER M16	1		
	94	314-537	COMPRESSION SPRING 57L	1		

	ITEM No.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
	95	314-538	REGULATING BOLT	1		
	96	949-518	ROLL PIN D3X18 (10 PCS.)	1		
	97	973-361	WASHER	4		
	98	996-577	BOLT (W/WASHERS) M6X12 (BLACK)	4		
*	99	314-539	BODY SHELL	1	FOR USA,AUS,NZL	
*	99	317-157	BODY SHELL	1	FOR GBR,FRG,BEL,ITA	
	100		WARNING LABEL (B)	1		
*	102		WARNING LABEL (A)	1	FOR USA	
	103		NAME PLATE	1		
	104	308-946	BOLT (W/WASHERS) M8X20 (BLACK)	4		
	105	314-540	SET PLATE	4		
	106	314-541	EXTENSION SUPPORTER (L)	2		
	107	308-946	BOLT (W/WASHERS) M8X20 (BLACK)	8		
	108	314-542	SPONGE	4		
*	109	314-543	SWITCH BOX	1	FOR USA	
*	109	317-152	SWITCH BOX	1	FOR GBR,FRG,BEL,ITA	
*	109	317-285	SWITCH BOX	1	FOR AUS,NZL	
*	110	314-544	STRAIN RELIEF (RU-1435)	1	FOR USA,AUS,NZL	
	111	314-545	TAPPING SCREW D4X10	3		
*	112	314-456	POWER CABLE	1	FOR USA	
*	112	317-151	POWER CABLE	1	FOR GBR,FRG,BEL,ITA	
*	112	317-148	POWER CABLE	1	FOR AUS,NZL	
*	113	314-457	CIRCUIT BREAKER SWITCH	1	FOR USA	
*	113	317-146	BREAKER SWITCH	1	FOR AUS,NZL	
	114	314-547	EXTENSION SUPPORTER (R)	2		
*	115	314-548	STRAIN RELIEF (RA-1418)	1	FOR USA,AUS,NZL	
*	115	317-156	STRAIN RELIEF (RU-1832)	1	FOR GBR,FRG,BEL,ITA	
*	116	314-549	TAPPING SCREW D5X16	2	FOR USA,AUS,NZL	
*	116	314-549	TAPPING SCREW D5X16	4	FOR GBR,FRG,BEL,ITA	
*	117	314-458	SWITCH MTG. PLATE	1	FOR USA,AUS,NZL	
*	118	314-459	ROCKER SWITCH	1	FOR USA	
*	118	317-147	ROCKER SWITCH	1	FOR AUS,NZL	
	119	314-552	TAPPING SCREW (SPECIAL) D4X10	2		
	120	314-553	TOOTHED LOCK WASHER M4	2		
*	121	314-460	INTERNAL WIRE	1	FOR USA	
	122	314-554	TAPPING SCREW D4X12	3		
	123	314-555	SEGMENT GEAR	1		
	124		HITACHI LABEL	1		
	125	314-556	TENSION HANDLE	1		
	126	314-557	WHEEL	1		
	127	314-558	HANDLE	1		
	128	314-534	FLAT WASHER M9.5	1		
	129	314-560	LABEL	1		
	130	314-561	POINTER BRACKET	1		
	131	949-433	BOLT WASHER M8 (10 PCS.)	1		
	132	949-558	NUT M8 (10 PCS.)	1		
	133	314-562	NEEDLE POINTER	1		
	134	314-580	TOOTHED LOCK WASHER M5	1		
	135	949-235	MACHINE SCREW M5X8 (10 PCS.)	1		
*	136	949-455	SPRING WASHER M6 (10 PCS.)	2	FOR USA,AUS,NZL	
	137	949-455	SPRING WASHER M6 (10 PCS.)	6		

* : ALTERNATIVE PARTS

	ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
	138	949-455	SPRING WASHER M6 (10 PCS.)	4		
	139	949-455	SPRING WASHER M6 (10 PCS.)	1		
	140	949-455	SPRING WASHER M6 (10 PCS.)	5		
	141	949-455	SPRING WASHER M6 (10 PCS.)	4		
*	142	315-040	BLADE GUARD ASS'Y	1	INCLUD.1-18,21-25,136 FOR USA,AUS,NZL	
	143	315-041	FENCE ASS'Y	1	INCLUD.36,37,39,41-51	
	144	315-042	MITER GAUGE ASS'Y	1	INCLUD.52-58	
*	148	317-142	COLLAR (A)	1	FOR AUS,NZL	
*	149	317-143	COLLAR (B)	1	FOR AUS,NZL,GBR,FRG,BEL,ITA	
*	150	314-553	TOOTHED LOCK WASHER M4	3	FOR AUS,NZL,GBR,FRG,BEL,ITA	
*	151	317-144	TAPPING SCREW D4X8	3	FOR AUS,NZL,GBR,FRG,BEL,ITA	
*	152	317-145	ELECTRO MAGNETIC DISTURBAN	1	FOR AUS,NZL,GBR,FRG,BEL,ITA	
*	156	317-149	INTERNAL WIRE (A)	1	FOR AUS,NZL,GBR,FRG,BEL.ITA	
*	157	317-150	INTERNAL WIRE (B)	1	FOR AUS,NZL,GBR,FRG,BEL,ITA	
*	159	317-153	SWITCH COVER	1	FOR GBR,FRG,BEL,ITA	
*	160	317-154	CIRCUIT BREAKER SWITCH	1	FOR GBR,FRG,BEL,ITA	
*	161	317-155	NVR-SWITCH	1	FOR GBR,FRG,BEL,ITA	
*	162	317-158	INTERNAL WIRE	1	FOR GBR,FRG,BEL,ITA	
*	163	317-159	INTERNAL WIRE	1	FOR GBR,FRG,BEL,ITA	
*	164	317-161	SPACER	2	FOR GBR,FRG,BEL,ITA	
*	165	317-162	LOCATION PIN	2	FOR GBR,FRG,BEL,ITA	
*	166	317-163	BLADE GUARD	1	FOR GBR,FRG,BEL,ITA	
*	167	317-164	MACHINE SCREW (W/WASHER) M4X8	2	FOR GBR,FRG,BEL,ITA	
*	168	317-178	CLEAR PANEL	1	FOR GBR,FRG,BEL,ITA	
*	169	317-166	EXTENSION SPRING	1	FOR GBR,FRG,BEL,ITA	
*	170	317-167	HEX. NUT	2	FOR GBR,FRG,BEL,ITA	
*	172	317-169	SPLITTER	1	FOR GBR,FRG,BEL,ITA	
*	173	317-170	FLAT WASHER	1	FOR GBR,FRG,BEL,ITA	
*	174	949-613	BOLT M6X16 (10 PCS.)	1	FOR GBR,FRG,BEL,ITA	
*	175	317-171	TAPPING SCREW D4X20	5	FOR GBR,FRG,BEL,ITA	
*	176	317-172	BLADE GUARD	1	FOR GBR,FRG,BEL,ITA	
*	177	317-173	BLADE GUARD	1	FOR GBR,FRG,BEL,ITA	
*	178	949-313	WING NUT M6 (10 PCS.)	1	FOR GBR,FRG,BEL,ITA	
	201	314-451	SPINDLE ASS'Y	1	INCLUD.202,206-210	
	202	314-567	PARALLEL KEY	1		
	203	949-217	MACHINE SCREW M4X12 (10 PCS.)	4		
	204	949-453	SPRING WASHER M4 (10 PCS.)	4		
	205	314-572	BEARING RETAINER	1		
	206	620-4VV	BALL BEARING 6204VVCMPS2S	1		
	207	314-568	COLLAR FOR D17	1		
	208	314-569	HELIX GEAR	1		
	209	967-261	RETAINING RING FOR D17 SHAFT	1		
	210	314-570	NEEDLE BEARING	1		
	211	314-575	BRACKET	1		
*	212	314-452	ARMATURE ASS'Y 115V	1	INCLUD.213,214,219	
*	212	317-136	ARMATURE ASS'Y 230V-240V	1	INCLUD.213,214,219	
	213	620-1VV	BALL BEARING 6201VVCMPS2S	1		
	214	620-0VV	BALL BEARING 6200VVCMPS2S	1		
	215	314-578	BAFFLE	1		
	216	314-579	TAPPING SCREW D5X60	2		
	217	314-580	TOOTHED LOCK WASHER M5	2		

PARTS

	ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
*	218	314-453	STATOR 115V	1		
*	218	317-137	STATOR 230V	1		
*	218	317-138	STATOR 240V	1		
	219	314-577	BEARING BUSHING	1		
	220	314-583	BRUSH CAP	2		
	221	999-044	CARBON BRUSH (1 PAIR)	2		
	222	314-585	HOUSING ASS'Y	1	INCLUD.223,226	
	223	314-586	BRUSH HOLDER	2		
	224	949-454	SPRING WASHER M5 (10 PCS.)	4		
	225	949-245	MACHINE SCREW M5X30 (10 PCS.)	4		
	226	967-377	HEX. SOCKET SET SCREW M5X8	2		
*	227	314-544	STRAIN RELIEF (RU-1435)	1	FOR USA	
*	227	317-286	STRAIN RELIEF (RU-1832)	1	FOR GBR,FRG,BEL,ITA,AUS,NZL	
	228		MOTOR NAME PLATE	1		

STANDARD ACCESSORIES

	ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
	701A	314-590	WRENCH 22MM	1		
	702A	314-591	WRENCH 23/26MM	1		
	703	314-592	ELBOW	1		
*	704	314-616	TCT SAW BLADE 255MM-D15.88 HOLE-NT36	1		
*	704	317-176	TCT SAW BLADE 255MM-D25.4 HOLE-NT 36	1		
*	704	317-177	TCT SAW BLADE 255MM-D30 HOLE-NT36	1		
*	705	314-324	PUSH STICK	1	FOR GBR,FRG,BEL,ITA	
*	706	314-819	STAND	1	FOR AUS,NZL,GBR,FRG,BEL,ITA	
*	707	317-175	HEX. WRENCH	1	FOR GBR,FRG,BEL,ITA	

OPTIONAL ACCESSORIES

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
901	314-325	TABLE INSERT FOR CUTTER	1		
902	314-324	PUSH STICK	1		
903	314-819	STAND	1		

Printed in Japan 10 – 98
(981020 N)

* : ALTERNATIVE PARTS